

Ref. T2/5.01

AREA SEARCH AND RESCUE PLANS

- 1 This circular supersedes SAR.2/Circ.4 and provides information on provisional maritime search and rescue plans for areas 1, 2, 3, 4, 7, 9, 10A (except for the Red Sea), 10C and 11.
- 2 Member Governments and Parties to the 1979 SAR Convention are invited to check and complete, as appropriate, the information contained in this circular and inform the Secretariat, as necessary.

Note:

This circular contains the latest information supplied to the Secretariat by Member Governments and parties to the 1979 SAR Convention and may not reflect recent political developments. Member Governments and Parties to the 1979 SAR Convention are invited to examine the entries with regard to their territories and provide the Secretariat with updated information particularly in the light of any changes to political boundaries which may result in changes to the delimitation of SAR areas in different parts of the world. Such information, including information on bilateral SAR agreements concluded between States in the interim period, will be included in the next revision of this circular.

AREA SEARCH AND RESCUE PLANS

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HISTORICAL BACKGROUND - MARITIME SAR AREAS

1 For the purpose of establishing a global maritime search and rescue plan constituting the ultimate goal of the International Convention on Maritime Search and Rescue, 1979 (SAR Convention), the Maritime Safety Committee has approved the preparation of search and rescue (SAR) plans for the following areas:

Area 1	-	North Atlantic
Area 2	-	North Sea
Area 3	-	Baltic Sea
Area 4	-	Eastern South Atlantic
Area 5	-	Western South Atlantic
Area 6	-	Eastern North Pacific
Area 7	-	Western North Pacific
Area 8	-	Eastern South Pacific
Area 9	-	Western South Pacific
Area 10A	-	North West Indian Ocean
Area 10B	-	South West Indian Ocean
Area 10C	-	East Indian Ocean
Area 11	-	Caribbean
Area 12A	-	Mediterranean
Area 12B	-	Black Sea
Area 13	-	Arctic Ocean

2 Taking into account that the implementation of the Global Maritime Distress and Safety System (GMDSS) is dependent upon an efficient and well-developed international search and rescue organization with functioning rescue co-ordination centres responsible for search and rescue operations, the Maritime Safety Committee, at its forty-fourth session (30 March to 3 April 1981), invited Member Governments to submit replies to a questionnaire on search and rescue facilities (MSC/Circ.327 of 14 April 1982), with a view to enabling the Secretariat to compile basic information on existing national maritime search and rescue capabilities to be used in the preparation of the global maritime search and rescue plan.

3 This circular contains those agreed provisional maritime SAR plans, which have been prepared on the basis of article II and paragraph 2.1.7 of the annex to the 1979 SAR Convention and relevant information provided by Member Governments and Parties to the 1979 SAR Convention:

- .1 North Atlantic Plan (area 1) (annex 1);
- .2 North Sea Plan (area 2) (annex 2);
- .3 Baltic Sea Plan (area 3) (annex 3);
- .4 Eastern South Atlantic Plan (area 4) (annex 4);
- .5 Asia and Pacific region plan (areas 7, 9, 10A (except the Red Sea) and 10C) (annex 5); and
- .6 Greater Caribbean Plan (area 11) (annex 6).

PURPOSE AND STATUS OF PLANS

4 The purpose of the provisional maritime search and rescue plans attached in annexes 1 to 6 is to enable Parties in the areas concerned to co-operate in maritime search and rescue operations and related matters to the maximum extent. Further SAR.2 circulars will contain additional information on agreed provisional maritime search and rescue plans for maritime SAR areas not included in the present circular.

5 The information contained in this circular will not be considered final until so notified to the Secretary-General by Parties to the 1979 SAR Convention, in accordance with sections 2.1.4 or 2.1.5 of the Annex to that Convention.

SEARCH AND RESCUE REGIONS

6 As provided in paragraph 2.1.7 of the Annex to the 1979 SAR Convention, "the delimitation of search and rescue regions is not related to and shall not prejudice the delimitation of any boundary between States".

7 While contiguous boundaries are desirable and recommended, it has not been possible to achieve this in all cases. Furthermore, the provisional maritime search and rescue regions are not always consonant with those provided in the International Civil Aviation Organization (ICAO) SAR Plan. In the provisional SAR plans provided in this circular, the continental shelf boundaries, as established or unofficially accepted severally between the Governments concerned, are generally the provisional maritime SAR boundaries. The delimitation of SAR regions has no effect on the status of the waters through which they run, nor does such delimitation affect in any way rights, claims or views of Governments under international law or prejudice any outstanding question concerning establishment of maritime boundaries.

8 Nothing in the attached provisional SAR plans shall prevent the Parties concerned from adopting, at some future date, other boundaries more suitable for maritime search and rescue purposes.

Content of entries

9 To the extent that it is available, information on provisional maritime SAR plans in each country consists of:

- .1 A table of SAR facilities containing:
 - .1.1 the national SAR agency for each State;
 - .1.2 maritime rescue co-ordination centres (MRCCs), with the names, locations and addresses of their designated operating agencies;
 - .1.3 landline and other communications available to the MRCCs;
 - .1.4 associated coast radio stations (CRSs) declared for use in the GMDSS, including VHF, MF and HF digital selective calling (DSC) facilities;
 - .1.5 associated or nearest Inmarsat coast earth stations, including particulars of their landline and other communications;
 - .1.6 associated or nearest COSPAS-SARSAT Mission Control Centres (MCCs), including particulars of their landline communications;
 - .1.7 associated air rescue co-ordination centres (ARCCs), with names, locations and addresses of their operations and landline communication facilities (telex, telephone, fax, AFTN);
 - .1.8 rescue units available;
 - .1.9 other SAR services available for international co-operation; and

- .1.10 amplifying remarks;
- .2 charts of the provisional maritime SAR regions in which SAR services are co-ordinated by maritime rescue co-ordination centres concerned; and
- .3 statements submitted by Governments.

SAR FACILITIES

10 Except where otherwise indicated, search and rescue facilities listed in the attached annexes are those which actually exist and are not necessarily those which are required or recommended. Short-range aircraft and surface units which cannot be expected to operate outside the immediate locality in which they are based have, in general, been excluded.

Telephone/telex/telefax numbers

11 Because the international access numbers for various countries vary, only the area code and telephone/telex/fax numbers are given. Callers should use the appropriate access code and telephone/telex or, where provided, telefax number.

DEFINITIONS AND ABBREVIATIONS

12 The definitions and abbreviations used in this circular are based on those contained in the IMO Search and Rescue (IMOSAR) and the Merchant Ship Search and Rescue (MERSAR) Manuals developed by IMO to support the 1979 SAR Convention; definitions and abbreviations applying to specific areas are given under the relevant plans.

Definitions

13 When these terms are used in this circular, they have the following meanings:

Aeronautical rescue co-ordination centre (ARCC). An RCC responsible for aeronautical search and rescue incidents.

Aeronautical rescue subcentre (ARSC). An RSC responsible for aeronautical search and rescue incidents.

Alert phase (ALERFA). A situation wherein apprehension exists as to the safety of a vessel and of the persons on board.

Coast earth station (CES). An Inmarsat communication station on the surface of the earth.

Coast watching unit (CWU). A land unit, stationary or mobile, designated to maintain a watch on the safety of vessels in coastal areas.

Co-ordinator surface search (CSS). A vessel, other than a rescue unit, designated to co-ordinate surface search and rescue operations within a specified search area.

Distress phase (DETRESFA). A situation wherein there is a reasonable certainty that a vessel or a person is threatened by grave and imminent danger and requires immediate assistance.

Emergency phase (INCERFA). A generic term meaning, as the case may be, uncertainty phase, alert phase or distress area.

Heavy helicopter (HEL-H). Helicopter with the capacity for evacuating more than 15 persons and an endurance of more than 3.5 hours.

Light helicopter (HEL-L). Helicopter with the maximum capacity for evacuating 3 persons and an endurance of up to 2 hours.

Long-range aircraft (LRG). Aircraft with a radius of action of 750 n.m. plus 2.5 hours search time remaining.

Maritime rescue co-ordination centre (MRCC). An RCC responsible for maritime search and rescue incidents.

Maritime rescue subcentre (MRSC). An RSC responsible for maritime search and rescue incidents.

Medium helicopter (HEL-M). Helicopter with the maximum capacity for evacuating from 6 to 15 persons and an endurance up to 3-3.5 hours.

Medium-range aircraft (MRG). Aircraft with a radius of action of 400 n.m. plus 2.5 hours search time remaining.

Mission Control Centre (MCC). A ground station of the COSPAS-SARSAT polar orbiting satellite system responsible for distribution of distress messages derived from that system.

On-scene commander (OSC). The commander of a rescue unit designated to co-ordinate search and rescue operations within a specified search area.

Rescue boat (RB*). Short range coastal/river craft.

Rescue co-ordination centre (RCC). A unit responsible for promoting efficient organization of search and rescue services and for co-ordinating the conduct of search and rescue operations within a search and rescue region.

Rescue subcentre (RSC). A unit subordinate to a rescue co-ordination centre established to complement the latter within a specified area within a search and rescue region.

Rescue unit (RU). A unit composed of trained personnel and provided with equipment suitable for the expeditious conduct of search and rescue operations.

Rescue vessel (RV**). Long-range seagoing craft.

—

* Speed should be inserted, e.g. "RB(10)".

** Speed should be inserted, e.g. "RV(10)".

Search and rescue region (SRR). An area of defined dimensions within which search and rescue services are provided.

Ship earth station (SES). An Inmarsat shipborne communication terminal which could be installed at RCCs.

Short-range aircraft (SRG). Aircraft with a radius of action of 150 nm, plus half hour search time remaining.

To ditch. In the case of an aircraft, to make a forced landing on water.

Ultra long-range aircraft (ULR). Aircraft with a radius of action of 1,500 nm, plus 2.5 hours search time remaining.

Uncertainty phase (INCERFA). A situation wherein uncertainty exists as to the safety of a vessel and the persons on board.

Very long-range aircraft (VLR). Aircraft with a radius of action of 1,000 nm, plus 2.5 hours search time remaining.

Abbreviations

14 The abbreviations used in this circular include those used in the IMOSAR and MERSAR Manuals and indicate the following:

A/B	Answer back
A/C	Aircraft
ACV	Air cushion vessel
AFTN	Aeronautical Fixed Telecommunication Network
ALERFA	Alert phase
AMVER	Automated Mutual-Assistance Vessel Rescue System*
ARCC	Aeronautical rescue co-ordination centre
ATA	Actual time of arrival
ATC	Air traffic control
ATD	Actual time of departure
AUSREP	Australian Ship Reporting System
CES	Coast earth station
CRS	Coast radio station
CS	Call sign
COSPAS-SARSAT	Search and Rescue Satellite-Aided Tracking System
CSS	Co-ordinator surface search
CWU	Coast watching unit
DETRESFA	Distress phase
DF	Direction finding (finder)
EPIRB	Emergency position-indicating radio beacon
ETA	Estimated time of arrival
ETD	Estimated time of departure
FIC	Flight information centre
FIR	Flight information region
Ft	Feet
HEL-H	Helicopter, heavy
HEL-M	Helicopter, medium
HEL-L	Helicopter, light
HQ	Headquarters
ICAO	International Civil Aviation Organization
IMO	International Maritime Organization
INCERFA	Uncertainty phase
INTERCO	International Code of Signals
JASREP	Japanese Ship Reporting System
kHz	Kilohertz
KT(s)	Knot(s)
LAT	Latitude
LONG	Longitude
LRG	Long-range aircraft
MERSAR	Merchant ship search and rescue manual
MCC	Mission Control Centre of the COSPAS-SARSAT system

* When indicated, it means that ship position information is available from the system.

MRCC	Maritime rescue co-ordination centre
MRG	Medium-range aircraft
MRSC	Maritime rescue subcentre
NM	Nautical miles
OSC	On-scene commander
PRU	Parachute rescue units
RB	Rescue boat
RCC	Rescue co-ordination centre
RSC	Rescue subcentre
RU	Rescue unit
RV	Rescue vessel
SAR	Search and rescue
SAREX	SAR-exercise
SES	Ship earth station
SITREP	Situation report
SOLAS	International Convention for the Safety of Life at Sea
SRG	Short-range aircraft
SRR	Search and rescue region
SSB	Single side band
UHF	Ultra high frequency
ULR	Ultra long-range aircraft
USCG	United States Coast Guard
UTC	Co-ordinated universal time
VHF	Very high frequency
VLR	Very long-range aircraft
WX	Weather

ANNEX 1

NATIONAL MARITIME SEARCH AND RESCUE PLAN FOR THE NORTH ATLANTIC OCEAN AREA

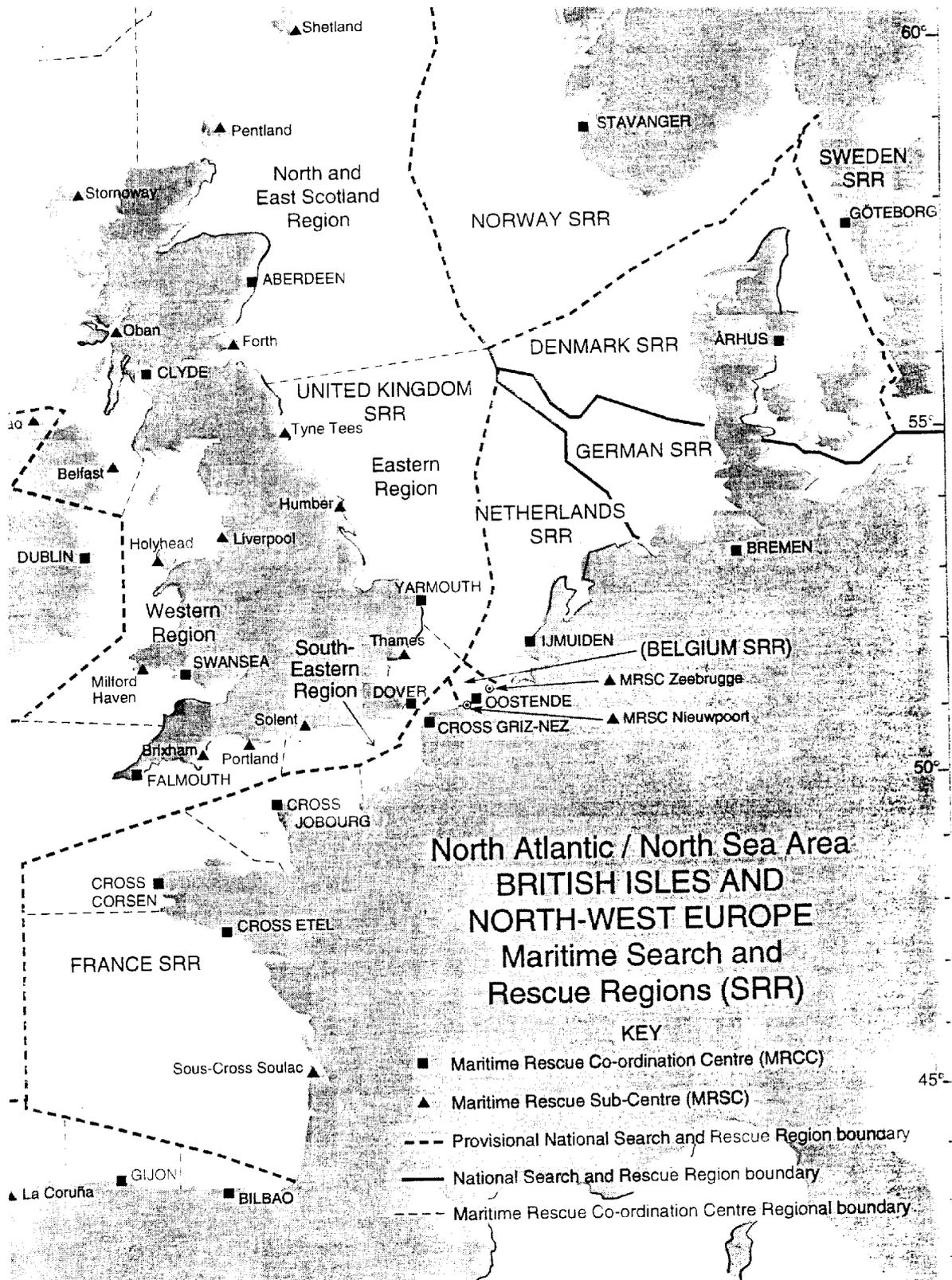
1.1 BELGIUM

1.1.1 NATIONAL SAR AGENCY:

Sea Rescue Co-ordination Centre,
Sir Winston Churchillkaai 2,
8400 Oostende, Belgium

Tel: (059)701 100
Telex: 82 125

MRCC or MRSC	Landline communications, including SES installed at RCC	Associated CRSs	Associated or nearest INMARSAT CESs	Associated or nearest COSPAS-SARSAT MCCs	Associated ARCC	Rescue units available	Other units available	Remarks
1	2	3	4	5	6	7	8	9
Ostend	Telex:82125 Pilotage Ostend Tel: (059)701100 - 24 h. (059)701000 - office hours	Ostend Radio <u>HF DSC</u> (planned) <u>MF DSC</u> (planned)	Goonhilly (United Kingdom)	To be completed	RSC Koksijde Air Force Tel: (058)31 1714	Tugboat Rescue boat Helicopter Pilot launches	Pilot boat at A1 buoy Pilot tender at flushing	-
MRSC Zeebrugge	Telex: MARPOL 82229 Pilotage Zeebrugge Tel: (050)545072	<u>VHF DSC</u> (planned)				Rescue boat Pilot launches		
MRSC Nieuwpoort	Pilotage Nieuwpoort Tel: (058)233000 or (059)701100 Ostend					Rescue boat Pilot launches		



1.2 CANADA

1.2.1 NATIONAL SAR AGENCY:

Department of National Defence and Canadian Coast Guard
 MAILING ADDRESS: Canadian Coast Guard
 Search and rescue
 Canada building
 344 Slater Street
 Ottawa, Ontario
 Canada Postal code K1A 0N7

Tel: 613-990-3099
 TELEX: 053-3128
 FAX: 613-996-8902

MRCC or MRSC	Landline communications, including SES installed at RCC	Associated CRSs	Associated or nearest INMARSAT CESs	Associated or nearest COSPAS-SARSAT MCCs	Associated ARCC	Rescue units available	Other units available	Remarks
1	2	3	4	5	6	7	8	9
<u>Trenton</u> Agency: Dept. of National Defence & Canadian Coast Guard	Tel: 613-392-2811 Local: 3870 or 3875 TLX: 06-62282	Cardinal-VDQ Sarnia-VBE Sault Ste. Marie-VBB Thunderbay-VBA Toronto-VBG Warton-VBC	Southbury U.S.A.	CFB Trenton Astra, Ont. Canada KOK 1BO Tel: 613-965-3872 613-965-2026 AFTN: CYTRYX	ARCC Trenton (same unit) Dept. of National Defence	8-RB(10-18) 1-LR 3-HEL	*1. CMRA *2. CASARA	Secondary units (from other Depts. of Govt.) usually available.

- * 1. CMRA: Canadian Marine Rescue Auxiliary.
 * 2. CASARA: Civil Air Search and Rescue Association.

1.2 CANADA (Contd)

MRCC or MRSC	Landline communications, including SES installed at RCC	Associated CRSs	Associated or nearest INMARSAT CESs	Associated or nearest COSPAS-SARSAT MCCs	Associated ARCC	Rescue units available	Other units available	Remarks
1	2	3	4	5	6	7	8	9
Edmonton Agency: Dept. of National Defence	Tel: 403-973-4402 ADIS: CYEGYCYX	Navigation Season Churchill-VAP Coral Hrbr-VFU Inuvik-VFA Coppermine-VFU6 Cambridge Bay-VFC Resolute-VFR	Southbury (Eastern) Santa Paula (Western) U.S.A.	CFB Trenton Astra, Ont. Canada KOK 1BO Tel: 613-965-3872 613-965-2026 AFTN: CYTRYX	ARCC Edmonton (Same unit) Agency: Department of National Defence	5-RB(10-18) 1-LRG 1-MRG	*1. CMRA *2. CASARA *3. Alberta- CARES	Secondary units (from other Depts. of Govt.) usually available.

-
- * 1. CMRA: Canadian Marine Rescue Auxiliary.
 - * 2. CASARA: Civil Air Search and Rescue Association.
 - * 3. Alberta-CARES: Civil Air Rescue Emergency Services.

1.2 CANADA (Continued)

MRCC or MRSC	Landline communications, including SES installed at RCC	Associated CRSs	Associated or nearest INMARSAT CESs	Associated or nearest COSPAS-SARSAT MCCs	Associated ARCC	Rescue units available	Other units available	Remarks
1	2	3	4	5	6	7	8	9
<u>Quebec</u> Agency: Canadian Coast Guard	Tel: 418-648-3599 800-463-4393 TLX: 015-2203	Montreal/VFN Mont-Joli/VCF Québec/VCC Rivière-au- Renard/VCG Sept Iles/VCK	Southbury U.S.A.	CFB Trenton Astra, Ont. Canada KOK 1BO Tel: 613-965-3872 613-965-2026 AFTN: CYTRYX	ARCC Halifax ARCC Trenton Agency: Department of National Defence	1-RV 3-RB	*1. CMRA *2. CASARA	Secondary units (from other Depts. of Govt.) usually available.

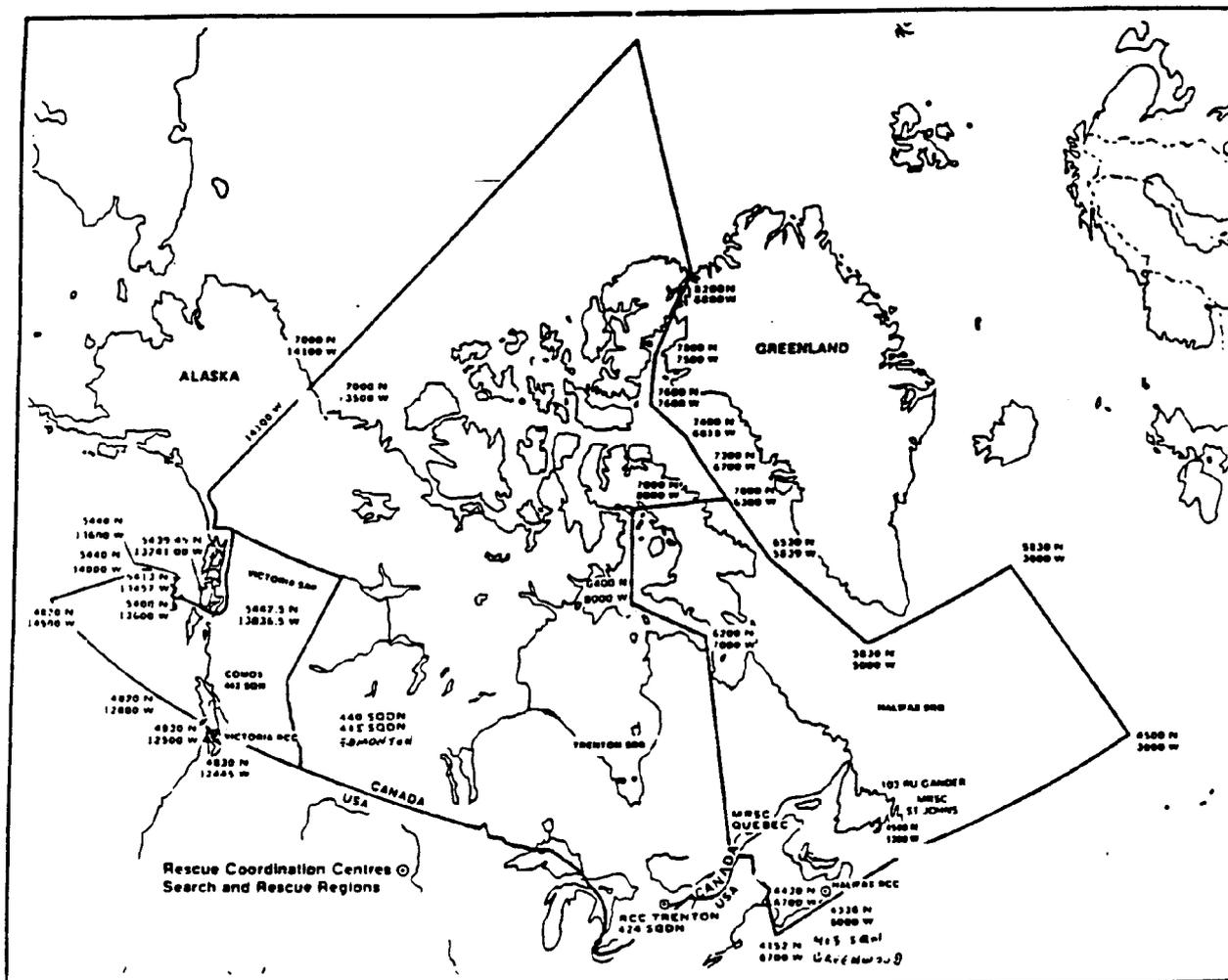
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- * 1. CMRA: Canadian Marine Rescue Auxiliary.
 - * 2. CASARA: Civil Air Search and Rescue Association.

1.2 CANADA (Continued)

MRCC or MRSC	Landline communications, including SES installed at RCC	Associated CRSs	Associated or nearest INMARSAT CESs	Associated or nearest COSPAS-SARSAT MCCs	Associated ARCC	Rescue units available	Other units available	Remarks
1	2	3	4	5	6	7	8	9
Halifax Agency: Dept. of National Defence & Canadian Coast Guard	Tel: 902-019-21533 A/B Mot CGR	Halifax/VCS Yarmouth/VAU Sydney/VCO Charlottetown/VCA CAP-AUX-MEULE S/VCN IQALUIT VFF	Southbury, U.S.A.	CFB Trenton Astra, Ontario Canada KOK 1B0 Tel: 613 965-3872, 613 965-2026 AFTN: CYTRYX	ARCC Halifax Agency: Dept. of National Defence	2-RV (15) 9-RB 3-HEL-H 3-MRG	*1. CMRA *2. CASARA	Secondary units (from other Depts. of Govt.) usually available.
St.John's Newfoundland Agency: Canadian Coast Guard	Tel: 709-737-51511 Zenith: 07021 Tlx:016-4044 A/B MRSC SNF	St.Anthony/VCM Comfort Cove/VOO St.John's/VON St.Lawrence/VCP Stephenville/VOJ LABRADOR/VOK	Southbury, U.S.A.	CFB Trenton Astra, Ontario Canada KOK 1B0 Tel: 613 965-3872, 613 965-2026	ARCC Halifax Agency: Dept. of National Defence	2-RV(15) 4-RB 3-HEL-H	*1. CMRA *2. CASARA.	Secondary units (from other Depts. of Govt.) usually available.

- * 1. CMRA: Canadian Marine Rescue Auxiliary.
* 2. CASARA: Civil Air Search and Rescue Association.

SRR BOUNDARIES



SRR BOUNDARIES

VICTORIA SRR

5442.5N 13036.5W, along the Alaska/Canada border to 6000N 13904W, east along 60°N to the BC/Alberta border, south along the BC/Alberta border to the Canada/USA border, to 4830N 12445W, 4830N 12500W, 4820N 12800W, 4820N 14500W, 5440N 14000W, 5440N 13600W, 5400N 13600W, 5413N 13457W, 5439.45N 113241W, 5442.5N 13036.5W

EDMONTON SRR

7000N 8000W, 6400N 8000W, 5701N 9000W, 4704N 9000W, west along the Canada/USA border to the Alberta/BC border, north along the Alberta/BC border to 12000W, north along 12000W to 6000N 12000W, west along 60N to the Canada/USA border, north along the Canada/USA border to 70N 14100W, north along 141W to the North Pole, south to 8200N 6000W, 7800N 7500W, 7600N 7600W, 7400N 6818W, 7300N 6700W, 7000N 6300W, west to 7000N 8000W.

TRENTON SRR

6400N 8000W, 6200N 7000W, 4642N 7000W, westerly along the Canada/US border to 4802N 9000W, 5701N 9000W, 6400N 8000W.

HALIFAX SRR

6400N 8000W, 7000N 8000W, 7000N 6300W, 6530N 5839W, 5830N 5000W, 5830N 3000W, 4500N 3000W, 4500N 5300W, 4336N 6000W, 4152N 6700W, north to the Canada/US border, westerly along the Canada/US border to the 70th meridian, north along the 70th meridian to 6200N 7000W north west to 6400N 8000W.

1.3 DENMARK (FAROES)

1.3.1 NATIONAL SAR AGENCY: Island Commander Faroes,
P.O. Box 195, 3800 Thorshavn, Faroe Islands

Tel: (298) 11420
Telex: (885) 81281 FRK FA

MRCC or MRSC	Landline communications, including SES installed at RCC	Associated CRSs	Associated or nearest INMARSAT CESs	Associated or nearest COSPAS-SARSAT MCCs	Associated ARCC	Rescue units available	Other units available	Remarks
1	2	3	4	5	6	7	8	9
MRCC Thorshavn Agency: Island Commander, Faroes	Tel: (298) 11420 Telex: (885)81281 FRK FA	Thorshavn Radio/OXJ	Eik, Norway	NMCC, Bode Norway	Keflavik Joint RCC	HEL-L	1 frigate with LYNX helicopter, 2 auxiliary vessels (fishery), 1 coastal cutter (see paragraph 1.3.2)	Secondary rescue units available if needed. No specific area assigned.

DENMARK (continued)

1.3.2 Typical details of "declared" SAR units

Declared Aircraft

Class	Type	Bases	Readiness	Radius of Action	Transit speed	Search speed	Endurance	Survivor capacity	SAR Equipment	Radio Comm.
HEL-H	H-3	AALBORG SKRYDSTRUP VAERLOESE	15 mins. day 60 mins. night	270 NM	110 kts	75 kts	5 hours (transit and search)	20	Droppable rescue platform. Rescue slings. 1 Basket/Litter Medical equipment. See note 1.	VHF/AM VHF/FM UHF HF/MF (SSB+AM) DF
VLR	C-130H	VAERLOESE	6 hours (when A/C available)	960 NM	290 kts	200 kts	8 hrs. 30 m	62 litters or 75 pax	2 droppable life-rafts (5 persons). Droppable survival equipment.	VHF/AM UHF HF/MF (SSB+AM) DF
MRG	G-3	VAERLOESE	6 hours (when A/C available)	600 NM	290 kts	200 kts	6 hours	15 litters or 12-18 pax	Droppable survival equipment	VHF/AM VHF/FM UHF HF/MF (SSB+AM) DF

NOTE 1: When requested 5 complete bilge pumps and flares for illumination. Medical officer carried.

Declared Ships

Declared Ships	Bases	Size	Readiness	Crew	Max. speed	Endurance	Radio communications
RV (14) "NORDSOEEN"	Esbjerg	53.2x10 m	20 min.	12	14 kts	14 days	VHF/MF/FM - DF - UHF/DF
RV (12) "VESTKYSTEN"	Thyboroeen	49.9x10,0x4,2 m	20 min.	12	15 kts	14 days	VHF/MF/FM - DF - UHF/DF
RV (14) "NORDJYLLAND"	Skagen	53.2x10 m	20 min.	12	14 kts	14 days	VHF/MF/FM - DF - UHF/DF

NOTE 2: All RVs are equipped with towing and medical capacity.

1.4 FRANCE

1.4.1 NATIONAL SAR AGENCY: Organisme d'etudes et de co-ordination pour la recherche et la Sauvetage en mer - SECMAR
Mission Interministérielle de la Mer
3, Square Desaix, 75015 Paris, France

Tel: 44 37 16 43
FAX: 44 49 85 96

MRCC or MRSC	Landline communications, including SES installed at RCC	Associated CRSs	Associated or nearest INMARSAT CESs	Associated or nearest COSPAS-SARSAT MCCs	Associated ARCC	Rescue units available	Other units available	Remarks
1	2	3	4	5	6	7	8	9
MRCC Griz-Nez	Tel: 21 872187 Telex: 130680F (CROSS GN) Fax: 21 817132	Boulogne-sur-Mer Radio	Ploeuher-Bodou	Toulouse FMCC Centre Spatial de Toulouse, Avenue Edouard Belin, 31055 Toulouse Cedex Tel: 61274636 Telex: 530682 (MCSARN) AFTN: LFIAZS FAX: 61274878	St. Mars la Pile	Navy, customs, maritime affairs ships, patrol boats, planes, helicopters Lifeboats and motor-launcher	-	Delimitation of areas of responsibility is given in paragraph 1.4.2 and on the attached chart
MRCC Jobourg	Tel: 33 527823 Telex: 170465 (FCROSS MA) FAX: 33 041452	-	Ploeuher-Bodou	Toulouse FMCC	As above	As above	-	As above
MRCC Corsen	Tel: 98 893280 Telex: 940086 FAX: 98 896575	Brest le Conquest Radio	Ploeuher-Bodou	Toulouse FMCC	As above	As above	-	As above
MRCC Etel	Tel: 97 553535 Telex: 740843 F "CROSS A" FAX: 97 553535	Saint-Nazaire Radio Bordeaux-Arcachon Radio Saint Lys Radio	Ploeuher-Bodou	Toulouse FMCC	St. Mars la pile Lyon Montreurdun	As above	-	As above

1.4.2 Organization of maritime search and rescue in metropolitan France

DELIMITATION OF AREAS

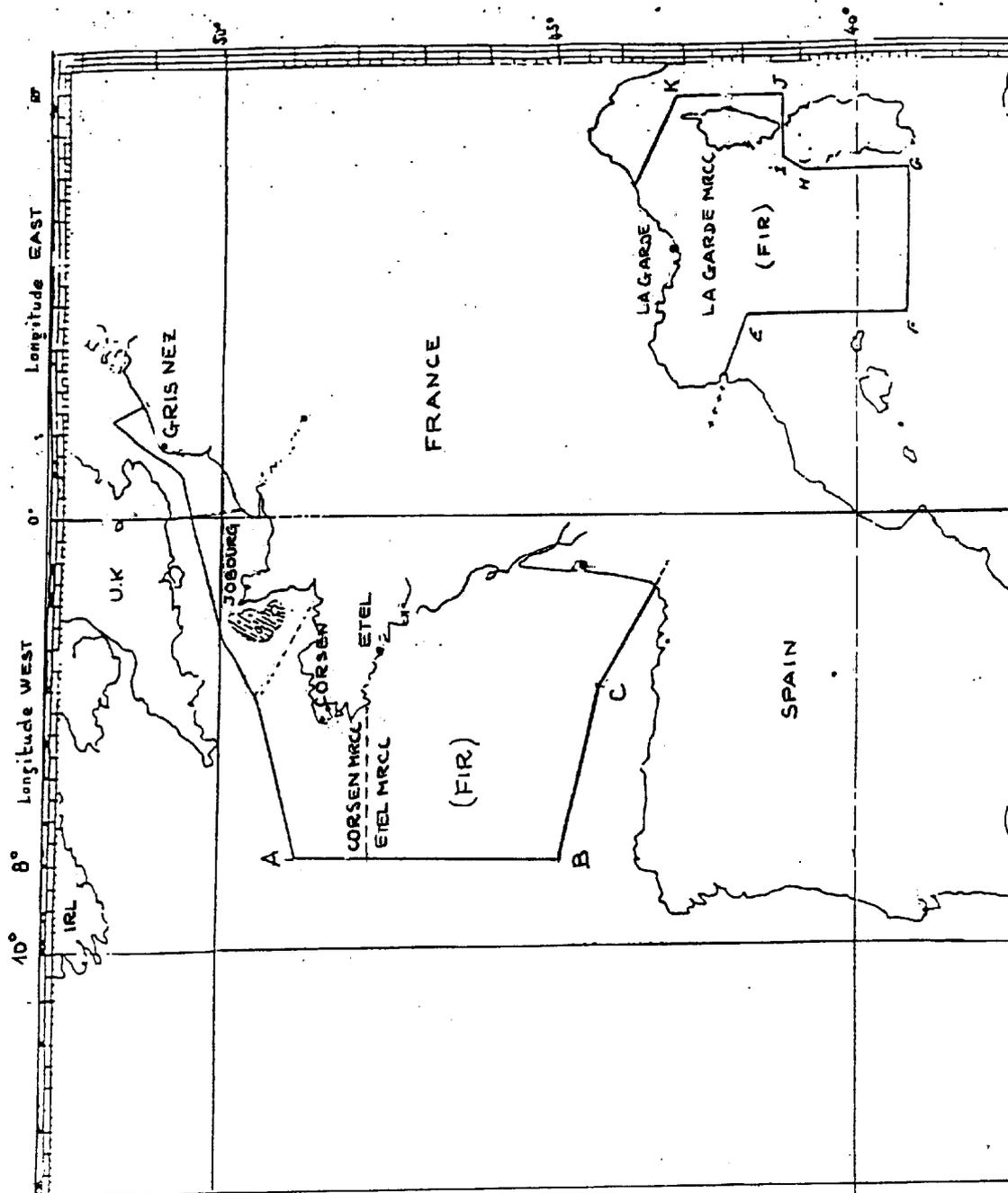
- CHANNEL, STRAIT OF DOVER, NORTH SEA Franco-Belgian frontier

1.	51°05'.6 N	002°32'.6 E
2.	51°16'.1 N	002°23'.4 E
3.	51°32' N	002°15' E
4.	51°32' N	002°11'.2 E
5.	51°30'.2 N	002°07'.3 E
6.	51°20'.2 N	002°02'.3 E
7.	51°14'.4 N	001°57'.3 E
8.	51°12' N	001°53'.3 E
9.	51°06' N	001°43'.5 E
10.	51°02'.3 N	001°32'.9 E
11.	50°57' N	001°21'.4 E
12.	50°48'.9 N	001°16'.5 E
13.	50°32'.8 N	000°57'.8 E
14.	50°24'.5 N	000°00'
15.	50°18'.3 N	000°36'.1 W
16.	50°12'.1 N	001°12'.4 W
17.	50°05'.9 N	001°48'.3 W
18.	49°58'.9 N	002°28'.9 W
19.	49°54'.4 N	002°53'.7 W
20.	49°30' N	004°06'.5 W
21.	49°00'.5 N	006°56' W
A.	48°50' N	008° W

- ATLANTIC

A.	48°50' N	008° W
B.	45°00' N	008° W
C.	44°20' N	004° W

Franco-Spanish frontier



1.5 ICELAND

1.5.1 NATIONAL SAR AGENCY: Directorate of Shipping
P.O. Box 7200, 127 Reykjavik, Iceland

MRCC	Landline communications, including SES	Associated CRSs	Inmarsat CRS	Associated nearest COSPAS SARSAT MCC	Associated ARCC	Rescue units available	Other units available	Remarks
1	2	3	4	5	6	7	8	9
<p>RCC oceanic. Joint Icelandic Coast Guard operations centre and radio/TFB</p> <p>RCC Coastal joint Icelandic ship reporting system, operation center The National Life Saving Association of Iceland</p>	<p>Tel: Emergency (354) 1 610230, 13099 Fax: 354-1-610240, 13099 Telex: (501) 2048 VARDSK IS, Inmarsat A terminal telex, phone: 581 1251123 AFTN adr. BIRKICGT 24 hours.</p> <p>Tel: Emergency (354) 1 627111 Tel: 617111 Fax: 354-1-29209 Telex: (501) 2336 SKYLDA- IS, Inmarsat C-terminal AFTN adr. BICCTSTT 24 hours.</p>	<p>Reykjavik Radio/TFA, Isafjordur Radio/TFZ, Siglufjordur Radio/TFX, Nes Radio/TFM, Hornafjordur Radio/TFM, Vestmannaeyja Radio/TFV.</p>		<p>NMCC BODOE Norway</p>	<p>RCC Icelandic Civil Aviation, Reykjavik.</p>	<p>LRG HFL-M HEL-L 3 RV(17-19) Ocean going Coast Guard Vessels with helo pads, rescue and salvage gear.</p> <p>NLAI operate 75 lifeboat and rescue stations along the coast. All lifeboats and rescue teams are equipped with radio, VHF-DF, medical and transportation gear.</p>	<p>Voluntary rescue units usually available, in co-operation with MRCC Coastal. Assets from US forces at Keflavik Airport requested through JRCC Keflavik, and Danish inspection ships according to agreements between the Governments of Iceland, USA and Denmark.</p> <p>Coast Guard facilities and other available facilities in co-operation with RCC oceanic.</p>	<p>Two Maritime RCCs have been designated to provide rescue services in and around Iceland. MRCC OCEANIC is responsible for ocean rescue, MRCC COASTAL for the coastline and in the area nearest thereto. RCCs shall provide assistance in both areas as requested.</p> <p>Nb. All Icelandic telephone numbers will be changed 3 June 1995. Corrections will be provided.</p>

1.5 ICELAND (continued)

MRCC	Landline communications, including SES	Associated CRS	Inmarsat CRS	Associated or nearest COSPAS SARSAT MCC	Associated ARCC	Rescue units available	Other units available	Remarks
1	2	3	4	5	6	7	8	9
JRCC Keflavík (Integrated SAR service provided by U.S. military with primary mission of military SAR and secondary mission of civil SAR)	Tel: (354) 222490, (354) 2 24324, (354) 2 55002, (354) 2 55009, Fax: (354) 252695			See above	See above	HEL-M VLR ELR		

1.5 ICELAND (continued)

1.5.2 Declared Aircraft

Class	Type	Bases	Readiness	R.O.A. Transit Search	Endurance Survey capacity	Search equipment	Radio Communications
1	2	3	4	5	6	7	8
LRG	F-27 Fokker	Reykjavik	30 min to 1 hour	1900 235 180	10:15	Search radar rescue boats (rafts), flares, (survival kits available)	HF VHF am, VHF marit, UHF VHF/AM/FM/UHF DF, HF DF,
HEL-M	SA-365 Aerosp. Dauphin	Reykjavík	30 min to 1 hour	450 175 135	3:35 1-7	Search radar, FLIR, winch, stretchers, medical equipment, search light	HF VHF AM/FM UHF, VHF/AM/FM DF, HF DF,
HEL-L	AS-350 Aerosp. Ecureuil.	Reykjavík	30 m. to 1 hour	350 147 125	3:00 1-4	Up to two stretchers, medical equipment	HF VHF AM/FM,
HEL-H n.b. Planned Late 1995	SUPER PUMA	Reykjavík		700	5:50	Search radar, winch, stretchers, medical equipment	HF VHF AM, VHF maritime VHF/AM/FM DF, HF DF,
HEL-M	HH-60	Keflavik	1 hour during norm. duty hours, 1 hour 30 min. all other times	250 140 Range can be increased significantly by airborne refuelling.	With internal fuel tanks 4+00 unrefuelled. Crew 5 up to 9 pass.	Doppler, UHF/DF, PLS, color weather radar. V-bladew knife, Stokes litter and cables, forest penetrator with flotation collar, horse collar, blankets, paracress, Marine location markers, life raft.	VHF 116- UHF 225-399.950 MHZ, UHF 225-300 MHZ, FM 30-87.975 MHZ, HF 2-30 MHZ, TRANSPONDER.

1.5 ICELAND (continued)

Class	Type	Bases	Readiness	R.O.A. Trensit Search	Endurance Survivor capacity	SAR equipment	Radio Communications
1	2	3	4	5	6	7	8
ELR	HC-130	Keflavik	1 hour times	2000 290 transit 130 search	13 Hours. Max 35, regular load 23.	MA1 rescue kit-3 Message containers 3. Parachutes, aerial delivery (1) 150 pounds max load 5 (2) 200-500 pound load-2 Emergency radios-2 Emergency water-1 case Emergency rations-1 case Survival kit, A-16 (arctic) Litter Pararescue equipment Pyrotechnics Datum Marker Buoy Parachutes, personnel -11 Individual life preservers (LPU) -11 Anti exposures suits -10 Survival kits (individual) -10	Dual UHF (225-399.9 MHz) Dual HF (2-30 MHz) Auxialry HF receiver 0.2-30 MHz Dual VHF (116.0-149.95 MHz).
VLR	P-3C	Keflavik	1350	210	9 hours 13		Dual UHF (225-399.9 MHz) Dual HF (2-30 MHz). Auxiliary HF receiver 0.2-30 MHz Dual VHF (116.0-149.95 MHz)

1.6 IRELAND

1.6.1 NATIONAL SAR AGENCY: Irish Marine Emergency Service
 Department of the Marine
 Lesson Lane, Dublin 2, Ireland

Tel: 1-682 0922 0923
 Telex: 93039 IMES
 Fax: 1-662 0795

MRCC or MRSC	Landline communications, including SES installed at RCC	Associated CRSs	Associated or nearest INMARSAT CESs	Associated or nearest COSPAS-SARSAT MCCs	Associated ARCC	Rescue units available	Other units available	Remarks
1	2	3	4	5	6	7	8	9
MRCC Dublin (Cospas-Sarsat SPOC) MRSC Malin Head MRSC Valentia <u>ARCC</u> RCC Shannon	Telephone: 61-474 339 1-6620922 1-6620923 77-70103 66-76109	Dublin Radio Valentina Radio Milan Head Radio MF DSC - Operational (For detail, see GMDSS)	Goonhilly (United Kingdom) (For detail, see U.K.)	UKMCC (For detail, see U.K.)		MRG HEL-L RV	Harbour Authority Vessels Naval and Air Corps resources available at Naval Base Haulowline County Cork and Air Corps HQ, Baldonnel County, Dublin	When necessary rescue facilities from the United Kingdom are called upon to augment Irish facilities. Delimitation of areas of responsibility is shown on the attached chartlet.

IRELAND (continued)

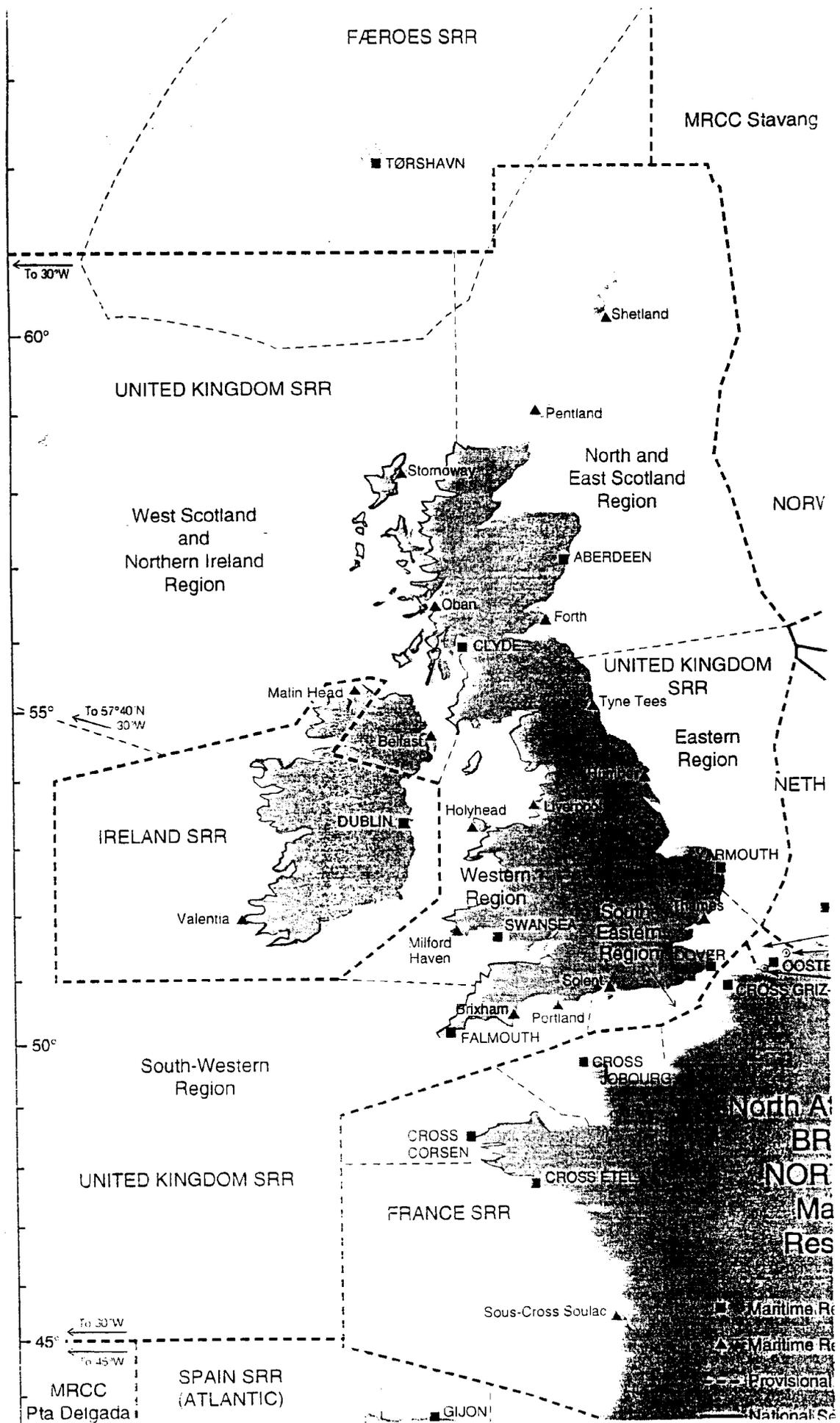
1.6.2 Declared aircraft

CLASS	TYPE	BASE	READINESS	RADIUS OF ACTION	TRANSIT SPEED	SEARCH SPEED	ENDURANCE	SURVIVOR CAPACITY	SAR EQUIPMENT	RADIO COMMUNICATION
Beechcraft Fixed Wing	SKA 200	Casement	None Stated	570 nm	240	130/180	5-7 hrs depending on mission	N/A	Droppable equip - none	VHF Marine Omega Nav. Radar (Search Weather)
Dauphin Heli	365 F	Casement	Immediate	110 IFR 150 VFR	125	40/90	2 1/2 - 3 1/2 hrs	Varies with distance from coast 2 - 5	Rescue Hoist 10 man dinghy	FM, UHF, HF VHF Marine, Normal VHF Homer
Alouette Heli	A III	Casement	None Stated	90 nm	102	40/80	2-2 1/2 hrs	2 norm 3 in-shore	Rescue hoist 10 man dinghy	FM, VHF, VHF Marine
Cessna	172	Gormanston	Immediate	Inshore only	110	80	4 1/2 hrs	None	Droppable equip - none	HF, VHF

IRELAND (continued)

1.6.3

Irish Naval Service ships respond to search and rescue calls as required by international law when in a position to do so. They are normally tasked with surveillance and patrol of the 200 miles EEZ and are not on "standby" for search and rescue missions as such.



1.7 NORWAY

1.7.1 NATIONAL SAR AGENCY: Ministry of Justice and Police SAR Division, Oslo, Norway
 Tel: + 47 22 24 53 20
 Telex: 21403
 Facsimile: + 47 22 24 95 30

MRCC or MRSC	Landline communications, including SES installed at RCC	Associated CRSs	Associated or nearest INMARSAT CESs	Associated or nearest COSPAS-SARSAT MCCs	Associated ARCC	Rescue units available	Other units available	Remarks
1	2	3	4	5	6	7	8	9
RCC Northern Norway, Bodo (integrated rescue service covering sea, land and air rescue)	Tel: 755-212-67 755-245-75 (unlisted) Telex: 64293 Telecommunication is also available via the military network: AFTN: ENBOYCYX Facsimile: + 47 755-24200	Oerlandet Radio Bodo Radio Vardo Radio Bjoernoeya Radio Isfjord Radio <u>VHF DSC</u> Entire coastline 1992/93 <u>MF DSC</u> (1992/93)	Eik	NMCC, Bodo Norway (integrated with RCC Northern Norway) Tel: + 47 75521267 Telex: 64293 Telex: 64302 (COSPAS/SARSAT only) Facsimile: + 47 755-24200 AFTN: ENBOYCYX	-	HEL-H VLR RV RB (see paragraph 1.7.2)	Coast Guard Cutters Naval ships Pilot vessels HEL-L/M (civilian)	Liaison with RCC Southern Norway, Stavanger, RCC Murmansk RCC Reykjavik. Delimitation of areas of responsibility is shown on the attached chartlet.

NORWAY (continued)

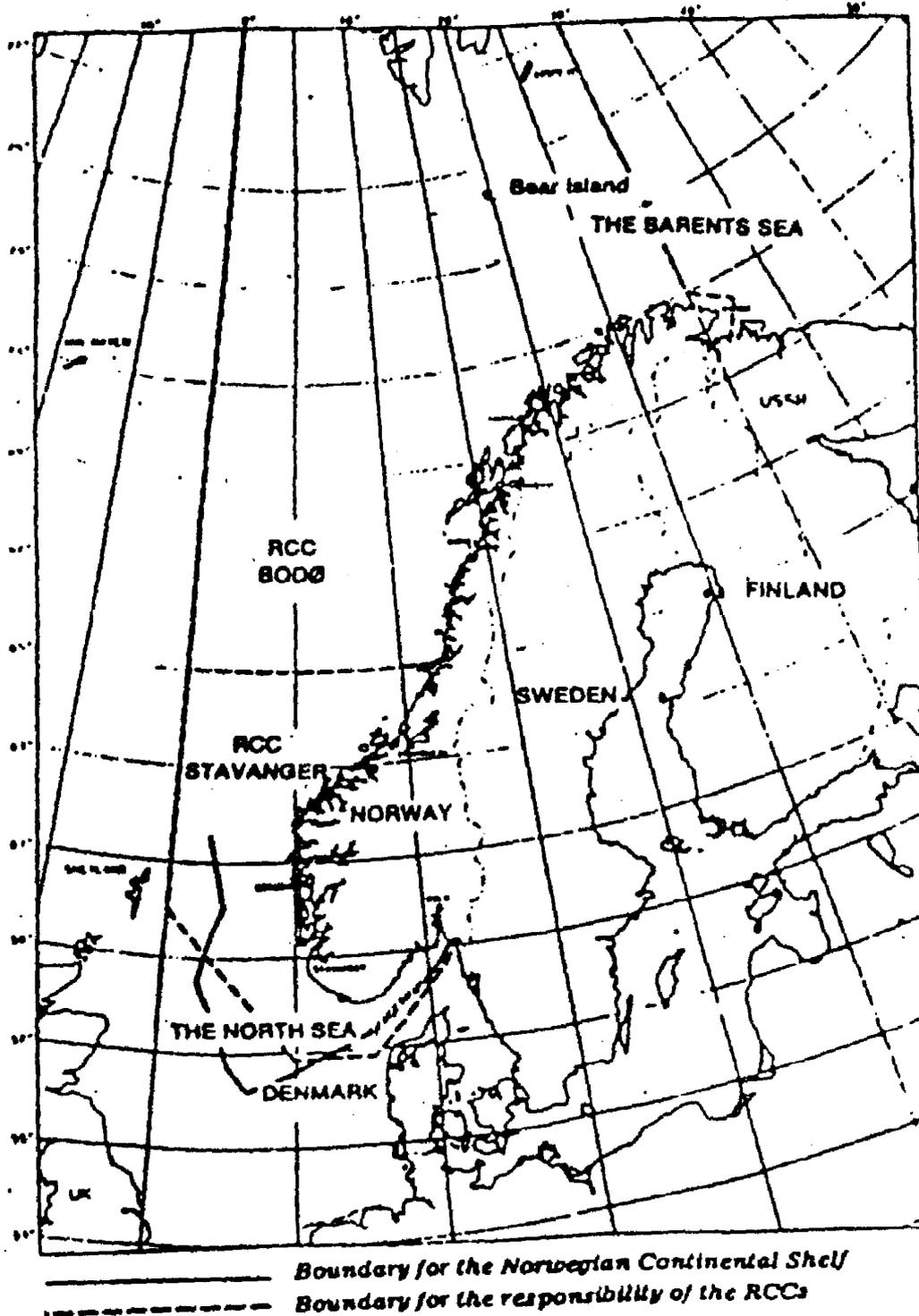
NORWEGIAN RSCUE UNITS
Typical Details of "Declared" SAR Units

1.7.2 DECLARED AIRCRAFT

CLASS	TYPE	BASE	READINESS	RADIUS OF ACTION	TRANSIT SPEED	SEARCH SPEED	ENDURANCE	SURVIVOR CAPACITY	SAR EQUIPMENT	RADIO COMMUNICATION
HEL-H	Seaking	Bodø Banak	1 hour 15 min. during working hours	270 nm	110 k	75 k	5.5 h	18 (stretcher capacity 6)	2 Drop dinghies (10 men each + suppl) Hoist with stretcher capability. 4 Helmito Water Pumps.	UHF VHF VHF-FM HF HF-SSB ADF/DF UHF/DF UHF/DF HF/DF
HEL-L	Sea Lynx	Coast Guard Vessels	30 min.	130 nm	120 k	75 k	2.75 h 4 hour with extra tank	4 (stretcher capacity)	Hoist First Aid Kit	UHF VHF VHF-FM HF UHF/DF VHF/DF VHF-FM/DF
<p>NB: 1 helicopter on readiness on each base at all times. All the figures are illustrative and depend on operative patterns, weather, etc.</p>										
VLR	P3-8 Orion	Andoeya	4 hours	1075 nm	290 k	190 k	11 hours	-	Several units of 2 x 10 men dinghies with equipment container. Flares.	UHF VHF HF-SSB ADF/DF UHF/DF

CHARTLET

Areas of responsibility for The Rescue Coordination Centers



1.8 PORTUGAL (including Azores)

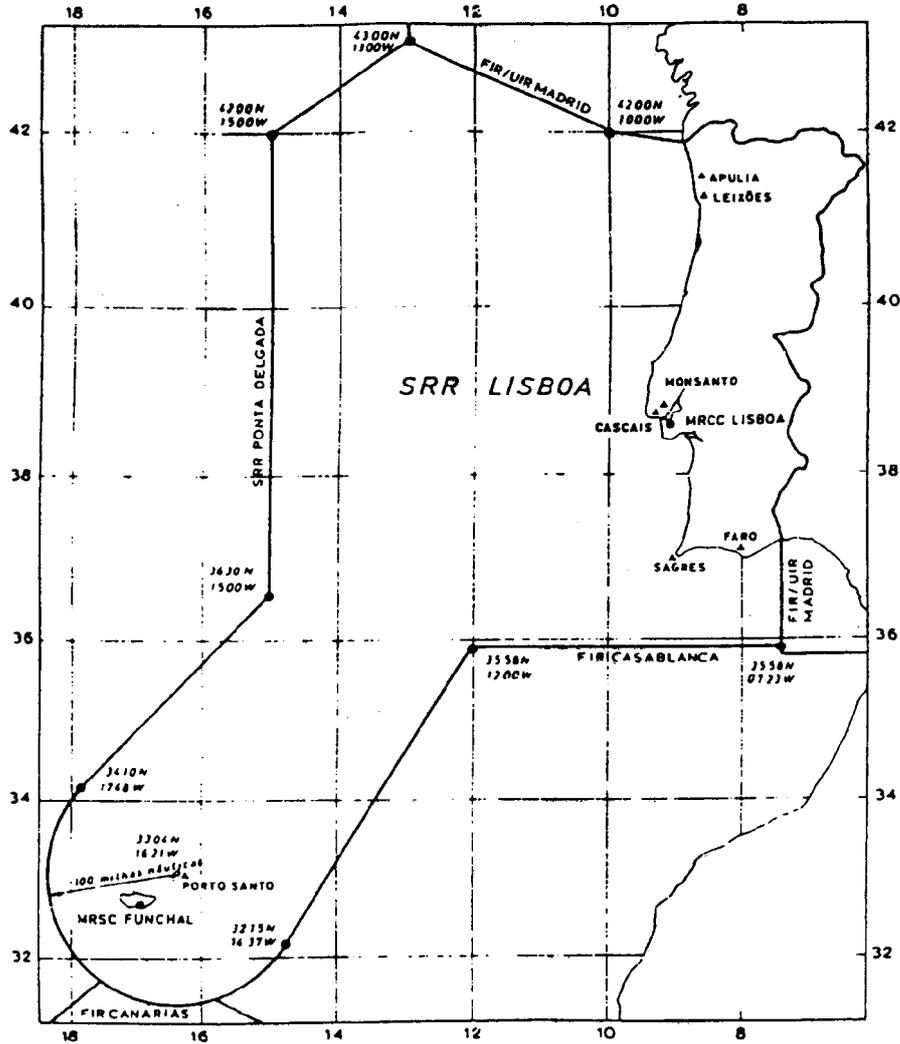
1.8.1 NATIONAL SAR AGENCY: Estado Maior da Armada, 3ª Divisão, Praça do Comércio, 1188 Lisboa Codex Telex: 12587 CENCOM P to Portuguese Navy staff Tel: 1-368965

MRCC or MRSC	Landline communications, including SES installed at RCC	Associated CRSs	Associated or nearest INMARSAT CESs	Associated or nearest COSPAS-SARSAT MCCs	Associated ARCC	Rescue units available	Other units available	Remarks
1	2	3	4	5	6	7	8	9
<u>Lisboa SRR</u> Lisboa MRCC	Tel: 1-2763394 Telex: 42126 MRCC L	Apúlia Radio Leixões Radio Cascais Radio Monsanto Radio Sagres Radio Faro Radio <u>NAVTEX</u> Monsanto Radio	Goonhilly (United Kingdom)	Toulouse FMCC	Lisboa RCC AFTN: LPAMYCYX	1 RV (21) 1 RB (15) Lifeboats VLR (C-130) HEL-H (SA330)	"Non declared facilities" e.g. warships, merchant ships, etc.	SAR area of responsibility is given in appendix 1
Funchal MRSC	As above	Porto Santo Radio	As above	As above	As above	1RB (15) Lifeboats SRG (C-212)		As above
<u>Azores Ponta Delgada SRR</u> Delgada MRCC	Tel: 96-27261 Telex: 82479 MRCC PD	Horta Radio <u>NAVTEX</u> Horta Radio	Goonhilly (United Kingdom) Southbury (United States)	Toulouse FMCC	Lajes RCC AFTN: LPLAYCYX	1 RV(21) Lifeboats VLR(C-130) HEL-H (SA330)	"Non declared facilities" e.g. warships, merchant ships, etc.	SAR area of responsibility is given in appendix 2

APPENDIX 1

REGIONS OF RESPONSIBILITY

1 SRR LISBOA (Coincident with FIR LISBOA)



SRR LISBOA Mouth of River Minho - 4200N 1000W - 4300N 1300W - 4200N 1500W - 3630N 1500W - 3410N 1748W - Then along an arc of circle 100 nm radius centred on 3304N 1621W - 3215N 1437W - 3558N 1200W - 3558N 0723W - Mouth of River Guadiana along Spain/Portugal border to mouth of River Minho.

ASSOCIATED CRSs to MRCC LISBOA

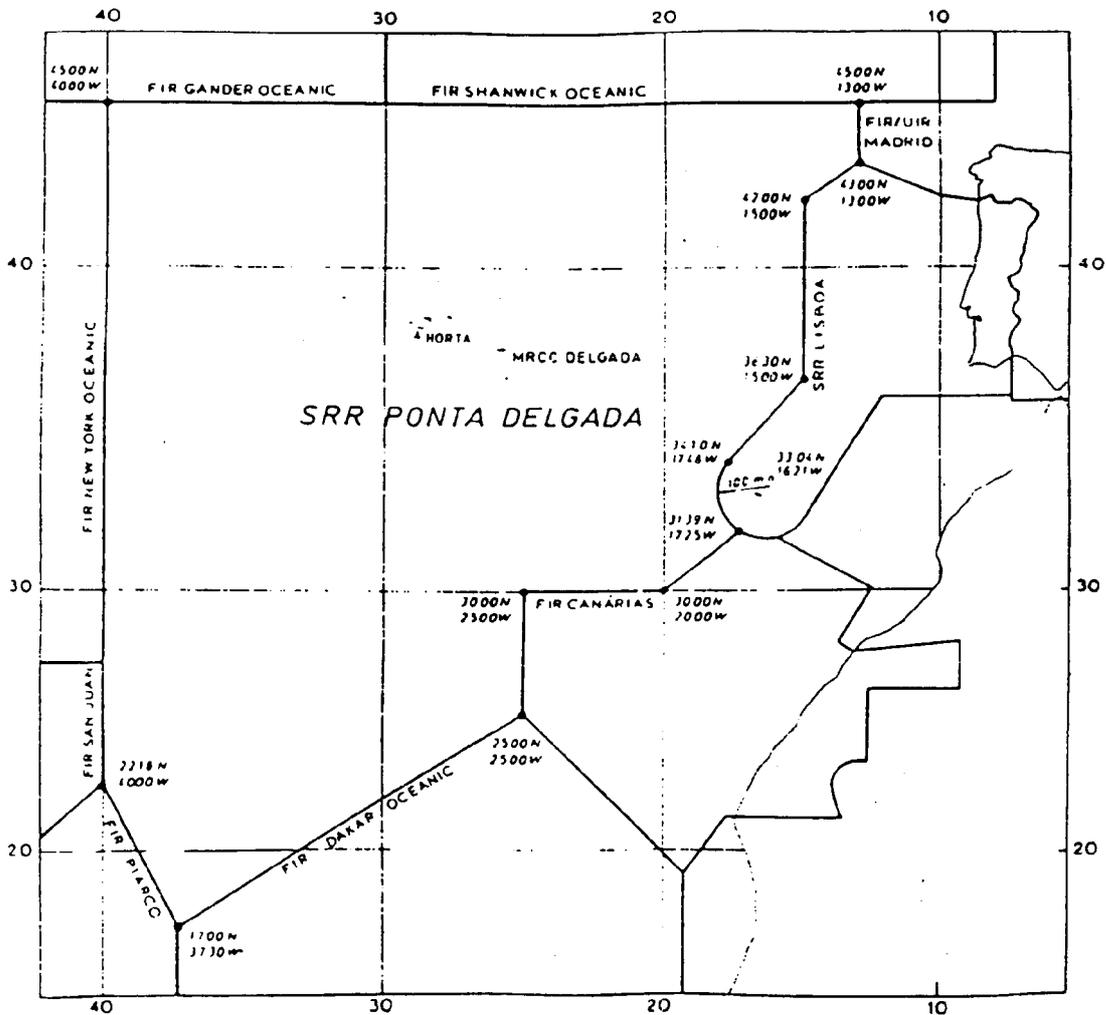
APÚLIA RADIO	- 41° 28' 30"N 008° 44' 51"W
LEIXÕES RADIO	- 41° 11' N 008° 42' W
CASCAIS RADIO	- 38° 41' 31"N 009° 25' 02"W
MONSANTO RADIO	- 38° 48' "N 009° 11' 17"W
SAGRES RADIO	- 36° 59' 49"N 008° 56' 48"W
FARO RADIO	- 37° 01' N 007° 55' 06"W

ASSOCIATED CRS TO MRCC FUNCHAL

PORT SANTO RADIO	- 33° 04' "N 016° 20' 12"W
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APPENDIX 2

2 SRR PONTA DELGADA (Coincident with FIR SANTA MARIA)



SRR PONTA DELGADA 4500N 4000W - 4500N 1300W - 4300N 1300W - 4200N 1500W -
 3630N 1500W - 3410N 1748W - along an arc of circle
 100 nm radius centred on 3304N 1621W - 3139N 1725W -
 3000N 2000W - 3000N 2500W - 2500N 2500W - 1700N 3730W -
 2218N 4000W - 4500N 4000W

ASSOCIATED CRS to MRCC DELGADA

HORTA RADIO - 38° 31' 44"N 028° 37' 59"W

1.9.1 NATIONAL SAR AGENCY:

1.9 SPAIN
Address: Avenida de Portugal, 81-4
28011 Madrid, Spain

Tel: 1-596 4900
Fax: 1-596 4909
Telex: 41210 SAMAD, 41224 SAMAD

MRCC or MRSC	Landline communications	Associated CRSs	Associated or nearest INMARSAT CESSs	Associated or nearest COSPAS-SARSAT MCCs	Associated ARCC	Rescue units available	Other units available	Remarks
1	2	3	4	5	6	7	8	9
MRCC MADRID	Tel: 1-597-9333,1-597-9334 Telex: 41210 SAMAD-E 41224 SAMAD-E Fax: 1-323-3711		Ploeumer-Bodou (France)	SPMCC Maspalomas (Canary Island) SPAIN		Declared units AIRPLANES	Non declared facilities e.g. warships military, & civil aircrafts, police aircrafts, customs, patrol boats & aircrafts, etc...	MRCC-MADRID is in permanent liaison with MRCCs of other countries 24 hours service
MRCC GIJON	Tel: 8-532-6050, 8-32-6373 Telex: 87303,87401 SALGI Fax: 8-532-0908				7 MRG 3 LRG	MRCC-GIJON 24 hours service		
MRCC FINISTERRE	Tel: 81-767-320, 81-767-738 Telex: 82268,86207 SAFIS Fax: 81-767-740				15 MRG 4 HEL-H	MRCC-FINISTERRE 24 hours service		
MRSC LA CORUÑA	Tel: 81-20-9548, 81-20-9541 Telex: 82094 SALCO Fax: 81-20-9518				RESCUE VESSELS 11 OFF SHORE TUGS	MRSC-LA CORUÑA 24 hours service		
MRCC TARIFA	Tel: 56-684-757, 56-681-452 Telex: 78262 CCTG Fax: 56-680-606				RESCUE BOATS 1 A. 2000 13 A. 1500 2 A. 1150 30 RB	MARCC-TARIFA 24 hours service		
MRCC BARCELONA	Tel: 34-3-2633233, 34-3-2633322 Fax: 34-3-3359775				7 OTHERS	MRCC-BARCELONA 24 hours service		
MRCC MALLORCA	Tel: 34-71-728322 34-71-722011 Fax: 34-71-728352					MRCC-MALLORCA 24 hours service		
MRCC LAS PALMAS	Tel: 28-467-757 28-467-955 Telex:95003,95039 SALPA					MRCC LAS PALMAS 24 hours service		
MRCC TENERIFE	Tel: 22-243-912, 22-244-034 Fax: 22-243-892					MRCC TENERIFE 24 hours service		

RESCUE UNITS - TYPICAL DETAILS OF DECLARED SAR UNITS

DECLARED AIRCRAFT OPERATED BY NATIONAL AGENCY SAR							
CLASS	TYPE	BASES	READINESS	R.O.A. TRANSIT SPEED SEARCH SPEED	ENDURANCE SURVIVOR CAPACITY	SAR EQUIPMENT	RADIO COMMUNICATIONS
HEL-H	SIKORSKY-S 61 N	GALICIA (1) (NW COAST)	10 - 30 min. (day-night)	400 nm	4 hours 19	Search radar Winch Stretchers Life Vest Medical equipment	VHF - AM VHF - MARITIME CELULAR TELEPHONE HOMING
HEL-H	SIKORSKY-S 61 N	MEDITERRANEO (1) (EAST COAST & BALEARICS ISLAND)	10 - 30 min. (day-night)	400 nm 120 knots 100 knots	4 hours 19	Search radar Winch Stretchers Life Vest Medical equipment	VHF - AM VHF - MARITIME CELULAR TELEPHONE HOMING
HEL-H	SIKORSKY-S 61 N	ANDALUCIA (1) (SOUTH COAST & GIBRALTAR STRAIT)	10 - 30 min. (day-night)	400 nm 120 knots 100 knots	4 hours 19	Search radar Winch Stretchers Life Vest Medical equipment	VHF - AM VHF - MARITIME CELULAR TELEPHONE HOMING
HEL-H	SIKORSKY-S 61 N	CANARIAS (1) (CANARY ISLAND)	10 - 30 min. (day-night)	400 nm 120 knots 100 knots	4 hours 19	Search radar Winch Stretchers Life Vest Medical equipment	VHF - AM VHF - MARITIME CELULAR TELEPHONE HOMING

DECLARED RESCUE VESSELS OPERATED BY NATIONAL AGENCY SAR							
NAME	BASES	SIZE	READINESS	CREW	SPEED	ENDURANCE	NAVIGATION & COMMUNICATION
GOLFO DE VIZCAYA	BILBAO (NE COAST)	61.5; 12.1; 6.64	10 - 30 min.	10	16 knots	6,000 miles	VHF (2) MF (1) FAX N: 908 - 177017 Direction Finder MF - VHF SATELLITE NAVIGATOR TELEX (INMARSAT) No.0581 - 1351575 + (Gala X) Celular telephone No.908 - 177017
L'ALBUFERA	GIJON (N. COAST)	62.2; 13.0; 4.6	10 - 30 min.	10	14 knots	14,000 miles	Radar (2) Satellite Navigator VHF (2) - MF - HF Direction Finder (2) MF - VHF Celular telephone No.908 - 196620 Fax No.908 - 196628 Télex (INMARSAT) No.0581 - 1351 (VIGO X) Fax (INMARSAT) No.0581 - 1351735
ALONSO DE CHAVES	LA CORUÑA (NW COAST)	63.9; 13.3; 6.4	10 - 30 min.	10	16 knots	10,750 miles	Fax No.0581 - 1351704 (INMARSAT) Telex (INMARSAT) No.1351703 (ALON X) Radar Satellite Navigator VHF - MF - HF Radiotelex 08589 Direction Finder MF - VHF Celular telephone No.908 - 717849
RIA DE VIGO	VIGO (NW COAST)	68; 13.5; 6.4	10 - 30 min.	10	16 knots	8,000 miles	VHF - MF Telex (INMARSAT) No.1351152 (RNTA 5) Satellite Navigator Celular telephone No.908 - 182721 Radiotelex No.08590
HISPANIA	CADIZ (S. COAST)	69; 14.232; 5.16	10 - 30 min.	10	17 knots	20,000 miles	MF (1) HF (1) VHF - MARITIME (1) VHF - AM (1) Radar (2) Direction Finder MF - VHF Direction Finder 27 MHz Direction Finder 121.5 - 243.0 - 406.0 Decca Satellite Navigator Celular Telephone No.928 - 196692 Fax No.908 - 196692

DECLARED RESCUE VESSELS OPERATED BY NATIONAL AGENCY SAR (CONT.)

NAME	BASES	SIZE	READINESS	CREW	SPEED	ENDURANCE	NAVIGATION & COMMUNICATION
PUNTA SERVICE	ALGECIRAS (GIBRALTAR STRAIT)	62.8; 13.0; 5.0	10 - 30 min.	10	10 knots	6,000 miles	Radar (2) Satellite Navigator Decca VHF (2) - MF - HF Direction Finder (2) MF - VHF Celular telephone No.908 - 717848 Fax No.908 - 119305 Telex (INMARSAT) No.0581 - 1351705 (PUSE X) Fax (INMARSAT) No.0581 - 1351706
REMOLCANOSA CINCO	MALAGA (S. COAST)	43; 10.5; 5.21	10 - 30 min.	10 - 15	12 knots	6,500 miles	VHF (2) - MF (2) Direction Finder MF - VHF Satellite Navigator Celular telephone No.908 - 196629 Radiotelex No.08563
CARTAGONOVA	CARTAGENA (E. COAST)	60.0; 12.8; 4.6	10 - 30 min.	10 - 12	13 knots	7,500 miles	Radar (3) Satellite Navigator VHF (2) - MF - HF Direction Finder MF - VHF Celular telephone No.908 - 196629 Fax No.908 - 169405 Telex (INMARSAT) No.1351740 Fax (INMARSAT) No.1351741
CATALUNYA	BARCELONA (E. COAST)	61.5; 12.1; 4.7	10 - 30 min.	10 - 15	12 knots	6,000 miles	VHF (2) - MF (1) Celular telephone No.908 - 169405 Fax No.908 - 169405 Direction Finder (2) MF - VHF Satellite Navigator Telex (INMARSAT) No.1351574 (GALA X) Fax (INMARSAT) No.0581 - 1351617
PUNTA MAYOR	LAS PALMAS (CANARY ISLANDS)	60.0; 12.8; 4.66	10 - 30 min.	10 - 12	15 knots	6,000 miles	Radar (2) Satellite Navigator Galaxy Inmarsat - C/GPS VHF (2) - MF Radiotelex: 08520 Direction Finder (2) MF - VHF Celular telephone No.908 - 718000 Telex (INMARSAT) No.1351727 (PUMA X) Fax (INMARSAT) No.1351730

RESCUE UNITS - TYPICAL DETAILS OF DECLARED SAR UNITS

DECLARED RESCUE VESSELS OPERATED BY NATIONAL AGENCY SAR (CONT.)							
NAME	BASES	SIZE	READINESS	CREW	SPEED	ENDURANCE	NAVIGATION & COMMUNICATIONS
PUNTA SALINAS	TENERIFE CANARY ISLANDS	62.8; 13.0; 6.0	10 - 30 min.	10	16 knots	6,000 miles	Fax: 922 - 246330 Radar (2) GPS Decca VHF (2) - MF - HF Radiotelex: 08522 Direction Finder (2) MF - VHF Celular telephone No.908 - 196960 Fax No.908 - 182879 Telex (INMARSAT) No.1351707 (PUSA X) Fax (INMARSAT) No.1351710

RESCUE UNITS - TYPICAL DETAILS OF DECLARED SAR UNITS

DECLARED RESCUE BOATS OPERATED BY NATIONAL AGENCY SAR							
NAME	BASES	SIZE	READINESS	CREW	SPEED	ENDURANCE	NAVIGATION & COMMUNICATIONS
SALVAMAR ATLANTICO	PORTO DO SON (GALICIA)	20; 5.60	10 - 30 min.	3	34 knots	400 miles	Radar VHF (2) MF (1) Direction finder VHF Satellite navigator Celular telephone
SALVAMAR MONTE GORBEA	PASAJES	14.60; 4.40					
SALVAMAR EL PUNTAL	SANTANDER						
SALVAMAR EL SUEVE	GIJON						
SALVAMAR TOURIÑAN	CARIÑO (GALICIA)						
SALVAMAR TORRE DE HERCULES	LA CORUÑA						
SALVAMAR ALONSO SANCHEZ	HUELVA						
SALVAMAR ALGECIRAS	ALGECIRAS						
SALVAMAR SANT CARLES	SAN CARLOS (TARRAGONA)						
SALVAMAR L'EMPORDA	PALAMOS (GERONA)						
SALVAMAR CASTILLO DE BELLVER	PALMA DE MALLORCA						
SALVAMAR CAVALL BERNAT	POLLENSA (MALLORCA)						
SALVAMAR LANZAROTE	ARRECIFE (LANZAROTE)						
SALVAMAR BENTAYGA	LAS PALMAS (GRAN CANARIA)	300 miles					

RESCUE UNITS - TYPICAL DETAILS OF DECLARED SAR UNITS

DECLARED SAR AIRCRAFTS OPERATED BY AIR FORCE							
CLASS	TYPE	BASES	READINESS	R.O.A. TRANSIT SPEED-SEARCH SPEED	ENDURANCE SURVIVOR CAPACITY	SAR EQUIPMENT	RADIO COMMUNICATIONS
MRG	CASA 212 (AVIOCAR)	MADRID (2) BALEARIC ISLAND (5)	10 - 30 min. (day - night)	400 n.m. 180 knots 120 knots	9 Hours 15	Search radar Flare Launcher Rescue Boats Flares Beaches buoy Stretchers	VHF - SSB VHF - AM VHF - FM MARITIME VHF - UHF
LRG	FOKKER-27	CANARY ISLAND (3)	10 - 30 min. (day - night)	1000 n.m. 235 knots 100 knots	11 Hours 15	Search radar Flare Launcher Rescue Boats Flares Beaches buoy Stretchers	VHF - SSB HF VHF - FM MARITIME UHF
MRG	SUPERPUMA	MADRID (4) BALEARIC ISLAND (3) CANARY ISLAND (4)	10 - 30 min. (day)	250 n.m. 130 knots 60 knots	5 h. 30 m. 15	Search radar Boats Flares Beaches buoy Stretchers Medical equipment Winches	VHF - SSB HF VHF - AM VHF - FM MARITIME UHF
MRG	PUMA	MADRID (4)	10 - 30 min. (day)	150 n.m. 120 knots 60 knots	3 h. 30 m. 15	Search radar Boats Flares Beaches buoy Stretchers Medical equipment Winches	VHF HF - SSB VHF - FM MARITIME VHF - AM

RESCUE UNITS - TYPICAL DETAILS OF DECLARED SAR UNITS

HOSPITAL SHIP OPERATED BY SPANISH MARITIME MEDICAL ADMINISTRATION (I.S.M.)								
NAME	BASE	SIZE	READINESS	CREW	SPEED	ENDURANCE	NAVIGATION & COMMUNICATIONS	REMARK
ESPERANZA DEL MAR	LAS PALMAS CANARY ISLAND	81.48; 14; 4.6	10 - 30 min.	29	12 knots	6,000 miles	VHF (2) MF (2) Direction Finder Radar (2) Satellite Navigator INMARSAT No.0581 - 1351184 Telex No.928 - 1351164 Fax No.928 - 135164 Radiotelephone No.928 - 276111	Logistic and health support to all ships at sea in Canary S.R.R.

RESCUE UNITS - TYPICAL DETAILS OF OTHER UNITS AVAILABLE FOR SAR MISSIONS

AIRCRAFT OPERATED BY EMERGENCY CENTRE OF PAIS VASCO (NE COAST - GULF OF BISCAY)							
CLASS	TYPE	BASES	READINESS	R.O.A. TRANSIT SPEED SEARCH SPEED	ENDURANCE SURVIVOR CAPACITY	SAR EQUIPMENT	RADIO COMMUNICATIONS
HEL-M	SA 365C3 DAUPHIN	BILBAO (2) (NE. COAST)	13 - 30 min. (day-night)	60 nm 140 knots 30/60 knots	2 hours 4	IFR Winch Stretchers Search Radar Medical equipment	VHF-AM HF F.M. CELULAR TELEPHONE
AIRCRAFT OPERATED BY EMERGENCY CENTRE OF CANTABRIA (N. COAST - CANTABRICO)							
SIKORSKY 76	A+	SANTANDER (1) (N. COAST)	15 min. (day-night)	150 nm 155 knots 110 knots	3 h. - 15 min. 8	IFR Winch Liferaft Doctor	HF VHF VHF - MARITIME HOMING (HF, FM, 121,5)
AIRCRAFT OPERATED BY EMERGENCY CENTRE OF ASTURIAS (N. COAST-CANTABRICO)							
EUROCOPTER	ECUREIL B - 2	LA MORGAL (1) LUGO DE LLANERA (N. COAST)	5 min. (day)	125 nm 100 knots 80 knots	2 h. - 30 min. 3	Winch Liferaft Doctor	VHF TRANSPONDER VHF - MARITIME HOMING (HF, FM, 121.5)

RESCUE UNITS - TYPICAL DETAILS OF OTHER UNITS AVAILABLE FOR SAR MISSIONS (CONT.)

AIRCRAFT OPERATED BY FISHING INSPECTION OF GALICIA (NW. COAST)							
CLASS	TYPE	BASES	READINESS	R.O.A. TRANSIT SPEED SEARCH SPEED	ENDURANCE SURVIVOR CAPACITY	SAR EQUIPMENT	RADIO COMMUNICATIONS
HEL-M	BELL 212	CELEIRO (1) (NW. COAST)	10 - 30 min. (day-night)	150 nm 100 knots 55 knots	4 hours 7	Search Radar Winch Stretchers Life Vest Medical equipment	VHF - AM VHF - MARITIME RADIOTELEPHONE
HEL-M	BELL 212	VIGO (1) (NW. COAST)	10 - 30 min. (day-night)	150 nm 100 knots 55 knots	4 hours 7	Search Radar Winch Stretchers Life Vest Medical equipment	VHF - AM VHF - MARITIME RADIOTELEPHONE

VESSELS OPERATED BY FISHING INSPECTION OF GALICIA (NW. COAST)							
NAME	BASES	SIZE	READINESS	CREW	SPEED	ENDURANCE	NAVIGATION & COMMUNICATIONS
VALDIVIA	CORCUBION N. COAST	30.4; 8.5	10 - 30 min.	8	12 knots	6,000 miles	Radar Satellite Navigator VHF - MF Direction Finder - NF - VHF Radiotelephone No.908 - 182879 Fax No.981 - 747011
SERRA DE SANTIAGO	VIGO NW COAST	30.0; 7.20	13 - 30 min.	8	10 knots	7,200 miles	Radar Satellite Navigator VHF - MF Direction Finder - VHF - MF Radiotelephone No.908 - 182745

RESCUE UNITS - TYPICAL DETAILS OF OTHER UNITS AVAILABLE FOR SAR MISSIONS (CONT.)

CRAFTS OPERATED BY FISHING INSPECTION OF GALICIA (NW. COAST)							
DECLARED	BASES	SIZE	READINESS	CREW	SPEED	ENDURANCE	NAVIGATION & COMMUNICATIONS
R.B. R-930 (2)	VIGO VILLAGARCIA	7; 2	10 - 30 MIN.	3	25 knots	300 miles	Radar VHF COSPAS-SARSAT
R.B. R-46 (2)	CORUÑA BURELA	14.0; 3.8			28 knots	600 miles	
R.B. R-OCEANO (2)	MARIN STA. EUGENIA DE RIVEIRA	9.10; 4.0			35 knots	300 miles	
R.B. R-38 (2)	VIGO STA. EUGENIA DE RIVEIRA CORUÑA	11.03; 9			25 knots	300 miles	

AIRCRAFT OPERATED BY EMERGENCY CENTRE OF MURCIA (E. COAST)							
CLASS	TYPE	BASES	READINESS	R.O.A. TRANSIT SPEED SEARCH SPEED	ENDURANCE SURVIVOR CAPACITY	SAR EQUIPMENT	RADIO COMMUNICATIONS
HEL-M	BELL 212	MOLINA DE SEGURA LOS ALCAZARES (1) (E. COAST)	5 min. (day)	150 nm 120/130 knots Required speed	3 hours 8/12	Winch	VHF-FM VHF-AM VHF-MARITIME
AIRCRAFT OPERATED BY EMERGENCY CENTRE OF VALENCIA (E. COAST)							
AUGUSTA	109 A	VALENCIA (1) (E. COAST)	5 min. (day)	120 nm 130/140 knots Required speed	3 hours 2/3	Winch	VHF-FM VHF-AM VHF-MARITIME
AUGUSTA	109 C	SAN VICENTE DEL RASPEIG (1) (E. COAST)	5 min. (day)	120 nm 130/140 knots Required speed	3 hours 2/3	Winch	VHF-FM VHF-AM VHF-MARITIME

DECLARED RESCUE BOATS OPERATED BY "CRUZ ROJA ESPAÑOLA"							
DECLARED	BASES	SIZE	READINESS	CREW	SPEED	ENDURANCE	NAVIGATION & COMMUNICATIONS
R.B. "LS-AM" 1	MALAGA	14; 3.86	30 - 50 min.	4	13 knots	75 miles	VHF MF MF Direction Finder
R.B. "LS-AM" 3	HUELVA						
R.B. "LS-AM" 4	BARCELONA						
R.B. "LS-AM" 5	CARTAGENA						
R.B. "LS-AM" 6	ROSAS						
R.B. "LS-AM" 7	VALENCIA						
R.B. "LS-AM" 8	MAHON						
R.B. "LS-AM" 9	TARRAGONA						
R.B. "LS-AM" 10	ALMERIA						
R.B. "LS-AM" 11	CASTELLON						
R.B. "LS-AM" 12	ALICANTE						
R.B. "LS-AM" 13	MOTRIL						
R.B. "LS-AM" 14	IBIZA						
R.B. "LS-AM" 15	ESTEPONA						
R.B. "LS-AA" 1	FINISTERRE						
R.B. "LS-AA" 2	LA GUARDIA						
R.B. "LS-AA" 3	BERMEO						
R.B. "LS-AA" 4	BURELA						
R.B. "LS-AA" 5	CEDEIRA						
R.B. "LS-AA" 6	SANTA EUGENIA DE RIVERA						
R.B. "LS-AA" 7	SANTANDER						
R.B. "LS-AA" 8	CADIZ						
R.B. "LS-AA" 9	LAS PALMAS						

RESCUE UNITS - DETAILS OF DECLARED SAR UNITS

DECLARED RESCUE BOATS OPERATED BY "CRUZ ROJA ESPAÑOLA" (CONT.)							
DECLARED	BASES	SIZE	READINESS	CREW	SPEED	ENDURANCE	NAVIGATION & COMMUNICATIONS
GUIPUZCOA 11	SAN SEBASTIAN	14.84; 4	30 - 50 min.	4	12 knots	275 miles	VHF MF MF Direction Finder
BLANCA QUIROGA	LA CORUÑA						
ASTURIES	GIJON	10.85; 3.54		2	26 knots	260 miles	VHF
LANGOSTEIRA	FINISTERRE						
PURA	LA CORUÑA						
CRAFTS OPERATED BY PATRULLA AUXILIAR MARITIMA (REAL LIGA NAVAL)							
OSCAR	SEGUR DE CALAFELL	9.40; 3	20 min.	3	20 knots	100 hours	VHF Celular telephone
SANT JORDI	SEGUR DE CALAFELL	10; 4.5			12 knots	60 hours	VHF Celular telephone

SPANISH MARITIME SEARCH AND RESCUE (SAR) REGIONS

Spanish Maritime SAR REGIONS are bounded by lines connecting the following geographical positions

ATLANTIC REGION:

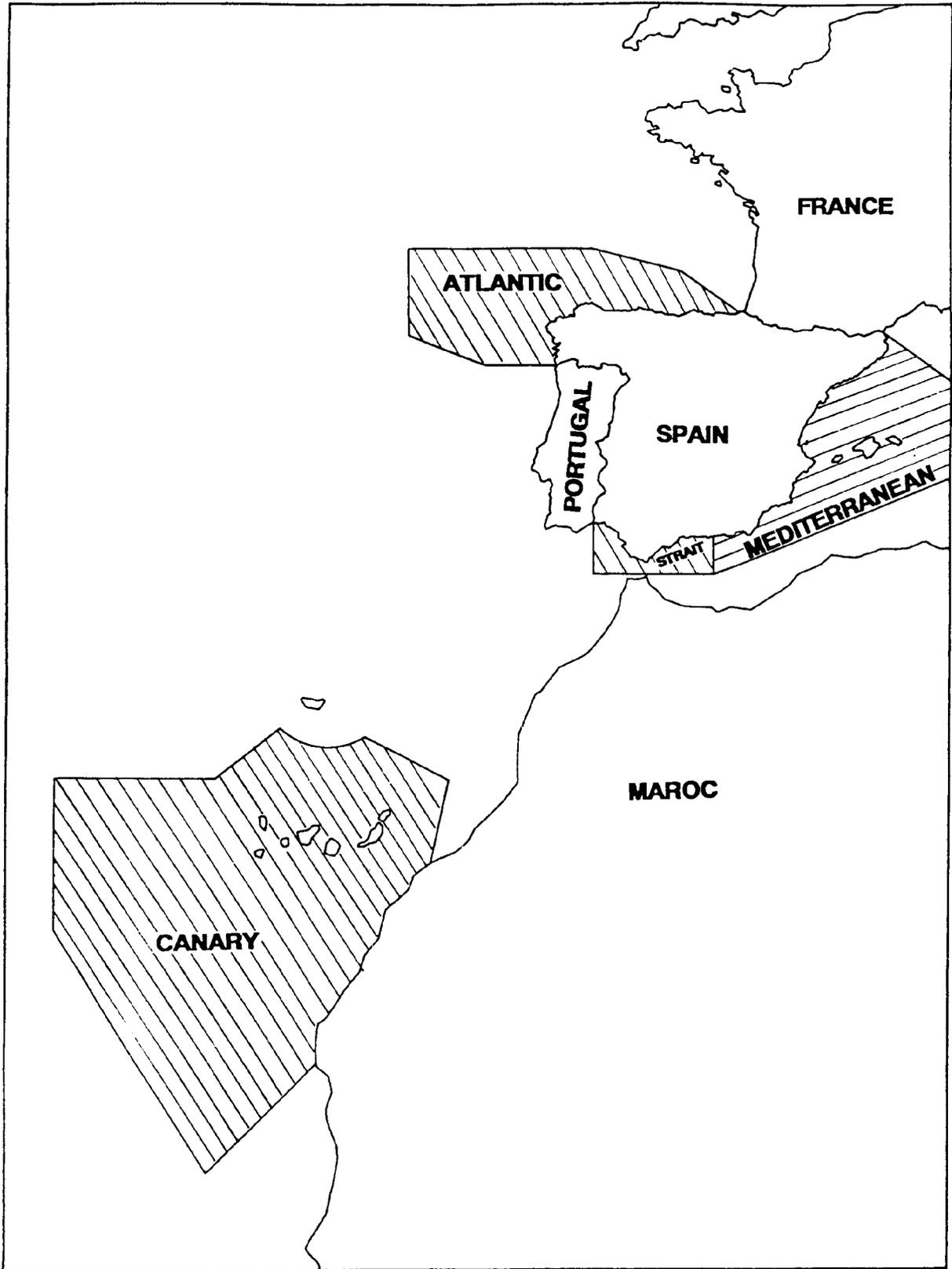
43° - 23'N	001° - 46'W (SPAIN/FRANCE boundary)
44° - 20'N	004° - 00'W
45° - 00'N	008° - 00'W
45° - 00'N	013° - 00'W
43° - 00'N	013° - 00'W
42° - 00'N	010° - 00'W
41° - 55'N	008° - 50'W (SPAIN/PORTUGAL boundary)

GIBRALTAR STRAIT/MEDITERRANEAN REGION:

37° - 13'N	007° - 23'W (SPAIN/PORTUGAL boundary)
35° - 50'N	007° - 23'W
35° - 50'N	002° - 06'W
38° - 20'N	003° - 45'E
39° - 00'N	004° - 40'E
42° - 00'N	004° - 40'E
42° - 27'N	003° - 12'E (SPAIN/FRANCE boundary)

CANARY REGION:

27° - 40'N	013° - 10'W
30° - 00'N	012° - 30'W
31° - 35'N	015° - 10'W
31° - 39'N	017° - 25'W
30° - 00'N	020° - 00'W
30° - 00'N	025° - 00'W
25° - 00'N	025° - 00'W
19° - 00'N	019° - 00'W
20° - 47'N	017° - 04'W



Spanish Maritime Search and Rescue Regions

The Maritime Search and Rescue (SAR) Areas of Spanish MRCCs are bounded by a line connecting the geographical positions as follows:

ATLANTIC REGION:

MRCC BILBAO

- | | | |
|-----|------------|-------------|
| a.- | 43° - 23'N | 001° - 46'W |
| b.- | 44° - 20'N | 004° - 00'W |
| c.- | 44° - 22'N | 004° - 20'W |
| d.- | 43° - 24'N | 004° - 20'W |

MRCC GIJON

- | | | |
|-----|------------|-------------|
| a.- | 43° - 24'N | 004° - 20'W |
| b.- | 44° - 22'N | 004° - 20'W |
| c.- | 44° - 53'N | 007° - 03'W |
| d.- | 43° - 33'N | 007° - 03'W |

MRCC FINISTERRE

- | | | |
|-----|------------|-------------|
| a.- | 43° - 33'N | 007° - 03'W |
| b.- | 44° - 53'N | 007° - 03'W |
| c.- | 45° - 00'N | 008° - 00'W |
| d.- | 45° - 00'N | 013° - 00'W |
| e.- | 43° - 00'N | 013° - 00'W |
| f.- | 42° - 00'N | 010° - 00'W |
| g.- | 41° - 55'N | 008° - 50'W |

GIBRALTAR STRAIT/MEDITERRANEAN REGION:

MRCC TARIFA

a.-	37° - 13'N	007° - 23'W
b.-	35° - 50'N	007° - 23'W
c.-	35° - 50'N	003° - 47'W
d.-	36° - 45'N	003° - 47'W

MRCC ALMERIA

a.-	36° - 45'N	003° - 47'W
b.-	35° - 50'N	003° - 47'W
c.-	35° - 50'N	002° - 06'W
d.-	37° - 12'N	001° - 00'E
e.-	37° - 50'N	000° - 45'W

MRCC VALENCIA

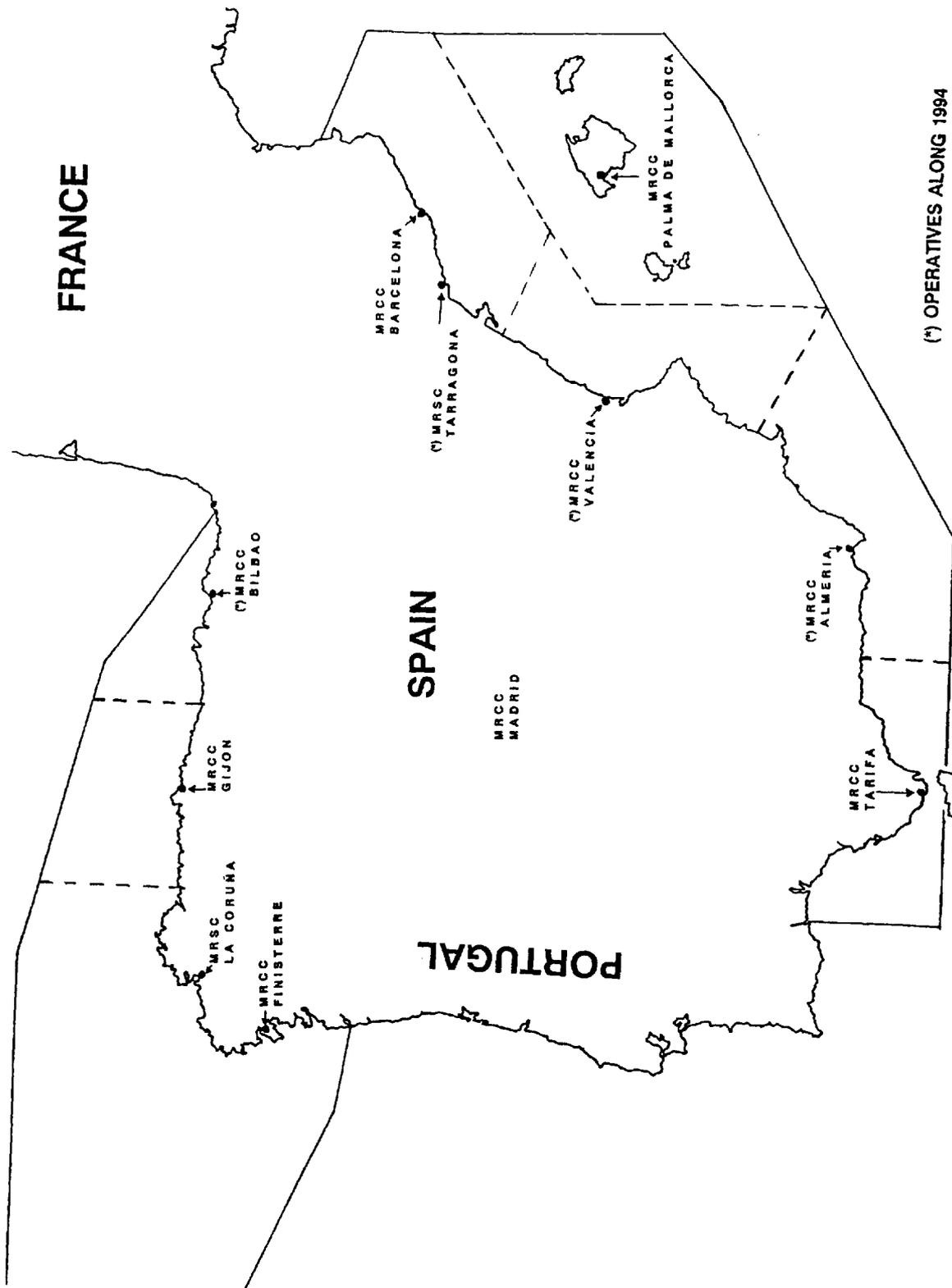
a.-	37° - 50'N	000° - 45'W
b.-	37° - 12'N	001° - 00'E
c.-	39° - 45'N	001° - 00'E
d.-	40° - 05'N	002° - 00'E
e.-	40° - 30'N	000° - 30'E

MRCC BARCELONA

a.-	40° - 30'N	000° - 30'E
b.-	40° - 05'N	002° - 00'E
c.-	41° - 20'N	004° - 40'E
d.-	42° - 00'N	004° - 40'E
e.-	42° - 27'N	003° - 12'E

MRCC PALMA

a.-	37° - 12'N	001° - 00'E
b.-	39° - 45'N	001° - 00'E
c.-	41° - 20'N	004° - 40'E
d.-	39° - 00'N	004° - 40'E
e.-	38° - 20'N	003° - 45'E



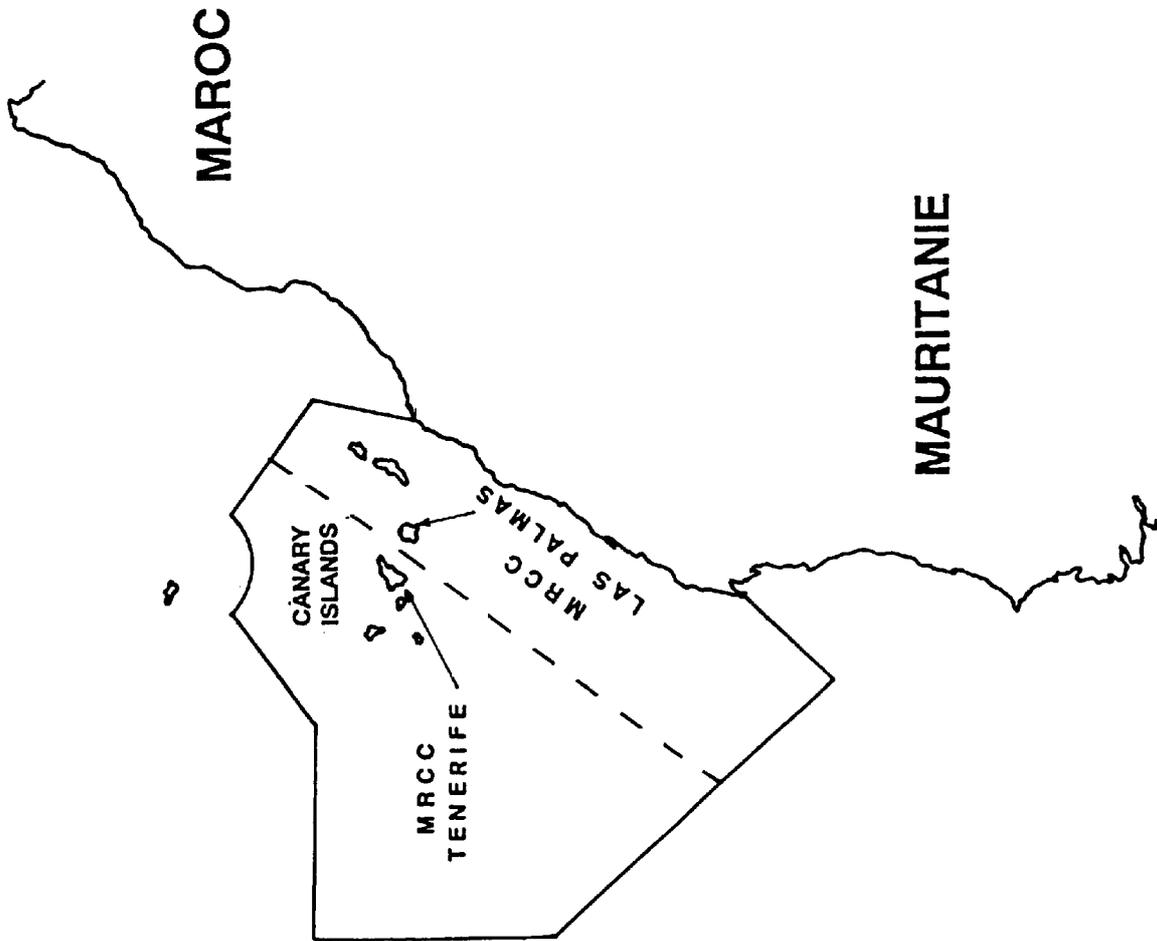
CANARY REGION:

MRCC LAS PALMAS

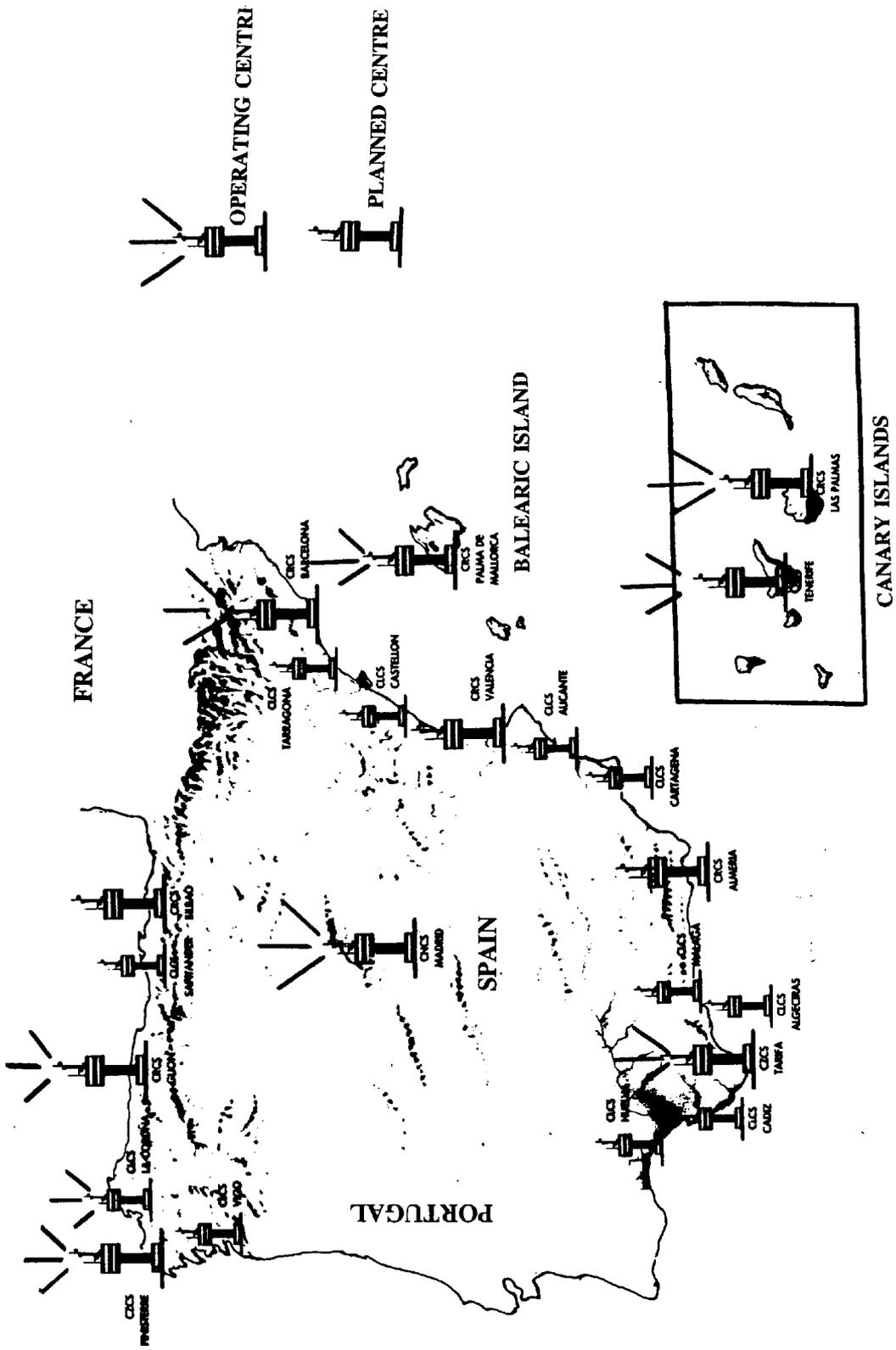
a.-	27° - 40'N	013° - 10'W
b.-	30° - 00'N	012° - 30'W
c.-	30° - 48'N	013° - 52'W
d.-	28° - 21'N	015° - 55'W
e.-	21° - 27'N	021° - 27'W
f.-	19° - 00'N	019° - 00'W
g.-	20° - 17'N	017° - 04'W

MRCC TENERIFE

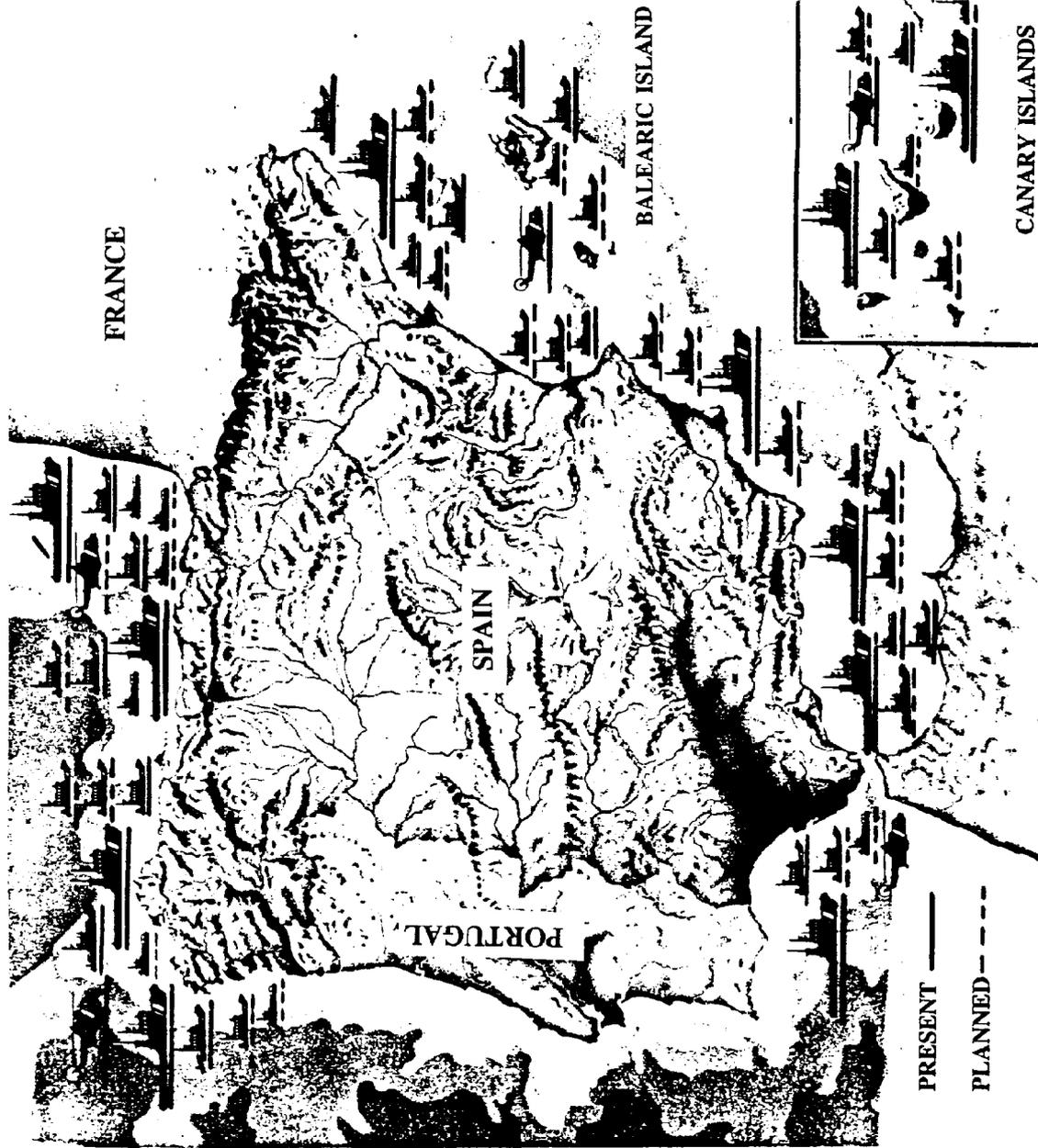
a.-	30° - 48'N	013° - 52'W
b.-	31° - 35'N	015° - 10'W
c.-	31° - 39'N	017° - 25'W
d.-	30° - 00'N	020° - 00'W
e.-	30° - 00'N	025° - 00'W
f.-	25° - 00'N	025° - 00'W
g.-	21° - 27'N	021° - 27'W
h.-	28° - 21'N	015° - 55'W



NATIONAL AGENCY SAR: PRESENTS MRCCs/MRSCs & DEVELOPMENT 1994-1997



NATIONAL AGENCY SAR: PRESENT SAR UNITS & DEVELOPMENT 1994-1997



BLQUES DE ALAVAMIENTO	UNIDADES DE SALVAMENTO B	UNIDADES DE SALVAMENTO C	UNIDADES DE UNIDAD	RECORRIDO HELICO
Alonso de Chaves	Alfonso	H. Galicia	Unidad I	H. Galicia
Hipona	H. Madrid	H. Extremo	Unidad II	H. Extremo
Punta Salinas	H. Valencia	H. Canarias	Unidad III	H. Canarias
Punta Serrera	H. Murcia	H. Mediterraneo	Unidad IV	H. Mediterraneo
Rio de Vigo	H. Balearic			
Cataluna	H. Canary			
Locho de Vizcaya	H. Balearic			
L'Albufera	H. Balearic			
Punta Mayor	H. Balearic			
Compana	H. Balearic			
Santa Lucea 5	H. Balearic			

1.10 UNITED KINGDOM

1.10.1 NATIONAL SAR AGENCY: Department of Transport,
Marine Directorate
HM Coastguard HQ

Address:
Spring Place, 105 Commercial Road,
Southampton, SO15 1EG

Tel: 1703-329 100
Fax: 1703-329 488
Telex: 47655

MRCC or MRSC	Landline communications, including SES installed at RCC	Associated CRSs	Associated or nearest INMARSAT CESs	Associated or nearest COSPAS-SARSAT MCCs	Associated ARCC	Rescue units available	Other units available	Remarks
1	2	3	4	5	6	7	8	9
<u>Dover SRR</u> MRCC Dover Agency HM Coastguard	Tel: 1304-210-008 Telex: 96273 Fax: 1304-210-302	<u>CRS:</u> North Foreland <u>NAVTEX:</u> Niton <u>M/F DSC:</u> Scheveningen <u>VHF</u> Channel 16 Distress Watch cover to 30 miles plus D/F	Goonhilly CES is associated with MRCC Falmouth Tel: 171-492-4996 Fax: 171-606-4640	Plymouth UK MCC RCC Plymouth, Mount Wise, Devon United Kingdom PL1 4JH Tel: 1752-605-444/430 563-330-501-152/154 Fax: 1752-229-654 Telex: 45677 SRCC-G	Plymouth	"Declared units" VLR HEL-H HEL-M RB (see paragraphs 1.10.3 and 1.10.4)	"Non-declared facilities", e.g. warships, military/civil aircraft, merchant ships, yachts, etc. Radar cover of Dover Strait	Liaison with Ostend Pilotage, (Belgian MRCC), CROSS Giz Nez, 67 Aerospace R+R Sq. USAF, Woodbridge Controls UK Ch Nav Info Service (CNIS)
<u>Falmouth SRR</u> MRCC Falmouth Agency HM Coastguard	(See paragraph 2.10.2) INMARSAT ship earth station Tel: 1326-317-575 Telex: 45560 Fax: 1326-318-342	<u>CRS:</u> Portishead Lands End <u>NAVTEX:</u> Niton	As above	As above	Plymouth	(see paragraphs 2.10.3 and 2.10.4)	"Non-declared facilities" VHF D/F (remote from Scillies)	Liaison with Jersey, Guernsey, CROSS Jobourg, Etel & Corsen, USCG Governors Is, MHQ Halifax and all SRR not adjacent to the United Kingdom

1.10 UNITED KINGDOM (Continued)

1.10.1 NATIONAL SAR AGENCY:

Department of Transport, Marine Directorate,
HM Coastguard HQ, Sunley House, High Holborn, London WC1

Tel: 0171-405-6911, ext.3104, 0171-405-2213

Tlx: 08812048 MARINE G

Fax: 0171-405-0794

MRCC or MRSC	Landline communications, including SES installed at RCC	Associated CRSs	Associated or nearest INMARSAT CESSs	Associated or nearest COSPAS-SARSAT MCCs	Associated ARCC	Rescue units available	Other units available	Remarks
1	2	3	4	5	6	7	8	9
		<u>HF DSC</u> No current plans <u>MF DSC</u> Falmouth Coastguard in 1988 <u>VHF</u> Channel 16 Distress Watch to 30 miles plus D/F						
<u>Clyde</u> MRCC Clyde Agency HM Coastguard	(See paragraph 1.10.2) Tel: 1475-729-988 Telex: 777006 Fax: 1475-786-955	<u>CRS:</u> Portpatrick <u>NAVTEX:</u> Portpatrick CRS <u>MF DSC:</u> Stornoway Coastguard in 1988 <u>VHF:</u> Channel 16 Distress Watch cover to 30 miles plus D/F	As above	As above	Edinburgh	(See paragraphs 1.10.3 and 1.10.4)	-	Liaison with Greenland

1.10 UNITED KINGDOM (continued)

1.10.2 Landline communications

MRCC/MRSC	OPERATIONAL TELEPHONES	TELEX	FACSIMILE	DIRECT LINES
<u>Dover</u> Thames	+1304 210008 +12556 5518	+96273 A/B DOVECG G +98314	+304 210302 +2556 5299	CROSS GRIZNEZ (Tel and Telex)
<u>Falmouth</u> Solent Portland Brixham	+1326 317575 +1705 552100 +1305 820441 +18045 58292	+45560 A/B FALMCG G +869187 +417138 +42981	+326 318342 +705 551763 +305 826891 +8045 58580	CROSS JOBOURG (Telex)
<u>Swansea</u> Hartland Point Milford Haven Holyhead Liverpool	+1792366534/267761 +12374 641 +16465 218 +1407 2051/3911 +151931 3343	+48202 +46134 +48293 +61124 +629448	+792 369005 +2374 495 +6465 513 +407 4373 +51931 3347	SHANNON RCC (TEL)
<u>Clyde</u> Ramsey Belfast Oban Stornoway	+1475 29988 +1624 813255 +1247 883184 +1631 63720/9 +1851 2013/4	+777006 A/B CLYDCG G +627382 +747833 +779672 +75157	+475 86955 +624 813136 +247 883123 +631 64917 +851 4387	

1.10 UNITED KINGDOM (continued)

1.10.3 Typical details of "declared" SAR Units

UK rescue facilities are of two types:

1. "Declared". These facilities include all dedicated SAR units which are located at specific bases and are kept at specific notice for use. HM Coastguard is required to be kept informed if availability is altered, or cannot be maintained.
2. "Additional". These facilities include any other units which may be available for a particular SAR operation. These units are not necessarily designed for SAR, but may include military or civil ships, aircraft and boats. Because of the varied nature of additional facilities no attempt is made to give their characterization here.

Declared Aircraft

Class	Type	Base	Readiness	Radius of Action	Transit speed	Search speed	Endurance	Survivor capacity	SAR Equipment	Radio Communications
VLR	NIMROD	KINLOSS OR ST MAWGAN	60 mins (duty a/c) 4 hrs (standby a/c)	1000 nm + 5 hrs search	400 kts	200/250 kts		-	6 x 9 man dinghies 2 x ASR packs	HF MF VHF (AM) (FM) UH MFD/F UHF D/F
HEL-H	SEAKING	LOSSIE- MOUTH BOULMER COLTISHALL BRAWDY	15 mins (day) 45 mins (night)	300 nm	110 kts	-	6 hrs	18	Winch (240 ft) Droppable survival eqpt medical eqpt	HF MF VHF (AM) (FM) UHF MFD/F UHF D/F
HEL-H	S61N	STORNOWAY SUMBURGH	15 mins 45	180 nm	110 kts	-	4.25 hrs	18	Winch (300 ft) Droppable survival eqpt medical eqpt	HF MF VHF (AM) (FM) VHF D/F

1.10 UNITED KINGDOM (continued)

1.10.3 Typical details of "declared SAR Units"

Declared Aircraft

Class	Type	Base	Readiness	Radius of Action	Transit speed	Search speed	Endurance	Survivor capacity	SAR Equipment	Radio Comms
HEL-M	WESSEX	LEUCHARS LECONFIELD MANSTON LEE-ON-SOLENT CULDROSE CHIVENOR VALLEY	10 mins (day) 60 mins (night)	100 nm	100 kts	-	2.5 hrs	10	Winch (65 feet) Droppable survival eqpt medical eqpt	HF MF VHF (AM) (FM) UHF UHF D/F

Note: All the above figures are illustrative and depend on the operating pattern selected, weather, etc., etc.

1.10 UNITED KINGDOM (continued)

1.10.4 Level of cover

1.10.4.1 Sea King, and Wessex helicopters formally declared by the Ministry of Defence for SAR duties, are currently deployed at 11 service locations, giving a quick response capability over the major part of the United Kingdom coastline and adjacent waters.

RAF Lossiemouth	(Sea King)	RNAS Lee-on-Solent	(Wessex)
RAF Leuchars	(Wessex)	RNAS Culdrose	(Wessex)
RAF Boulmer	(Sea King)	RAF Chievnor	(Wessex)
RAF Leconfield	(Wessex)	RAF Brawdy	(Sea King)
RAF Coltishall	(Sea King)	RAF Valley	(Wessex)
RAF Manston	(Wessex)		

At each of these stations, helicopters are held in pairs so that one is always at 15 minutes readiness during daylight hours and at longer notice by night. A second aircraft, if available, is kept on standby at one hour's readiness during daylight only. Additionally, RN Sea King helicopters operate from RNAS Culdrose and HMS GANNET (Prestwick) at 1 1/2 hours notice. The RN Wessex helicopters at Culdrose and Lee-on-Solent may include a diver in their crews.

1.10.4.2 In addition, long range Sikorski S69N helicopters are available from Sumburgh Airport, (Shetlands) and Stornoway Airports (Hebrides) for SAR duties and medical evacuations from vessels or offshore installations. They are at present operated by Bristows Helicopters under contract to the Department of Transport and are at a similar readiness to declared military aircraft.

1.10.4.3 RAF fixed wing aircraft. A Nimrod aircraft is on continuous standby for SAR duties around the United Kingdom and in the Eastern Atlantic. Aircraft are provided on a rota basis from RAF St Mawgan and RAF Kinloss, and are held at one hour's readiness. The Nimrod is capable of flying at high speeds to a distance of 1000 nms followed by a five-hour search period.

1.10.4.4 Lifeboats. The RNLI maintains a fleet of offshore lifeboats round the UK's coasts, except in certain remote locations where no operational requirement exists. These can reach a casualty up to 30 miles offshore within four hours of launching. The Institution also operates a fleet of small high-speed inshore lifeboats.

1.10.4.5 Royal Navy surface vessels. A warship is available at all times in the United Kingdom Sea Areas to deal with emergencies.

Further details of the UK SAR organization are given in the Department of Trade's publication 'United Kingdom Search and Rescue Handbook 1985'.

1.11 UNITED KINGDOM - BERMUDA

1.11.1 NATIONAL SAR AGENCY: Director of Marine and Ports Services Address: 9 Fort George Hill Tel: 441-297-1010
 St. George's, Bermuda Fax: 441-297-1530
 Telex: 3208 RCC BA

MRCC or MRSC	Landline communications, including SES installed at RCC	Associated CRSs	Associated or nearest INMARSAT CESs	Associated or nearest COSPAS-SARSAT MCCs	Associated ARCC	Rescue units available	Other units available	Remarks
1	2	3	4	5	6	7	8	9
MRCC St. George's	Tel: 441-297-1010 Telex: 3208 RCC BA Fax: 441-297-1530	Bermuda Harbour Radio St. George's 500 kHz 2182 kHz 156.8 MHz 8291.1 kHz SSB 5680 kHz - dedicated SAR frequency	Southbury, Connecticut (United States)	US MCC HQ ARRS/ US MCC Bdg. P.4 Scott AFB Illinois 62225 Tel: 618-256-6141 Tlx: 270 639 270 640	-	Government tug for limited offshore SAR. 53' Pilot Boat/ SAR craft. Normal range 30 miles offshore. U.S. Naval Air Station has LRG with 10 hours endurance available through international liaison. Helicopter 90 mile range (optimum conditions) 16' single jet inshore rescue craft. 24' ARCTIC inshore rescue craft. 29' twin jet dedicated SAR craft	Computerized database on arriving and departing cruising yachts	MRCC Bermuda's area of responsibility is a subregion of MRCC New York

1.12 UNITED STATES

1.12.1 NATIONAL SAR AGENCY: United States Coast Guard
Washington DC 20593, United States

Tel:
Telex:

MRCC or MRSC	Landline communications, including SES installed at RCC	Associated CRSs	Associated or nearest INMARSAT CESs	Associated or nearest COSPAS-SARSAT MCCs	Associated ARCC	Rescue units available	Other units available	Remarks
1	2	3	4	5	6	7	8	9
MRCC Boston Agency: Coast Guard (Commander 1st Coast Guard District)	Tel:617-2233664 Telex:94 0623 A/B COGARD BSN	Boston/NMF <u>HF DSC</u> Boston (planned)	Southbury	<u>US MCC</u> HQ ARRS/USMCC Bldg. P-4 Scott AFB.IL. 62225 Tel:(618) 256-6141 Telex:270639 USMCC SAFB; 270640 USMCC SAFB	Acts as International ARSC under ARCC New York	MRG HEL-H RV(8-29) RB(10-22)	AMVER	Secondary rescue units usually available if needed.
MRCC New York Agency: Coast Guard (Commander Coast Guard Atlantic Area/Commander 3rd Coast Guard District)	Tel:212-6687055 Telex:12 6831 (Administrative) 12 7775 (Distress) A/B USCG RCC NYK	Boston NMF Portsmouth NMV	Southbury	<u>USMCC</u> See Boston	ARCC New York - Same Unit	ELR RV(8-29) HEL-M RB(10-22)	AMVER Search Planning Computer	AMVER Center also has telex - listed under U.S. Department of Transportation - AMVER Center. Secondary rescue units usually available if needed.

1.12 UNITED STATES (continued)

MRCC or MRSC	Landline communications, including SES installed at RCC	Associated CRSs	Associated or nearest INMARSAT CESs	Associated or nearest COSPAS-SARSAT MCCs	Associated ARCC	Rescue units available	Other units available	Remarks
1	2	3	4	5	6	7	8	9
MRCC Portsmouth Agency:US Coast Guard (Commander 5th Coast Guard District)	Tel:804-398-623 Telex:82 5414 US COGARD Fort	Portsmouth/ NMN <u>HF DSC</u> Portsmouth (planned)	Southbury	US MCC (see Boston)	Acts as inter- national ARSC under New York	ELR HEL-H RV(8-20) MRG RB (10-22)	AMVER	Secondary rescue units usually available if needed
MRCC Miami Agency: US Coast Guard (Commander 7th Coast Guard District)	Tel: 305-3505614 Telex: 803009 USCG MIA	Miami/NMA	Southbury	US MCC (see Boston)	Miami ARCC - same unit	ELR MRG HEL-H RV (8-20) HEL-M RB (10-22)	AMVER	Secondary rescue units usually available if needed
MRCC San Juan Agency: US Coast Guard (Commander Coast Guard Greater Antilles Section)	Tel: 809-7222943 Telex: 365228 COSTGARD	San Juan/NMR	Southbury	US MCC (see Boston)	San Juan ARCC - same unit	ELR* MRG HEL-M RV (8-20)	AMVER	*On deployment. Secondary rescue units usually available if needed

2. Co-ordinates of boundaries of provisional SAR regions
 Co-ordinates as listed in the "chart"

